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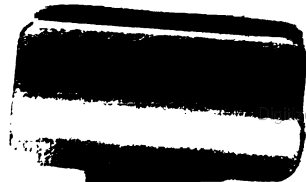
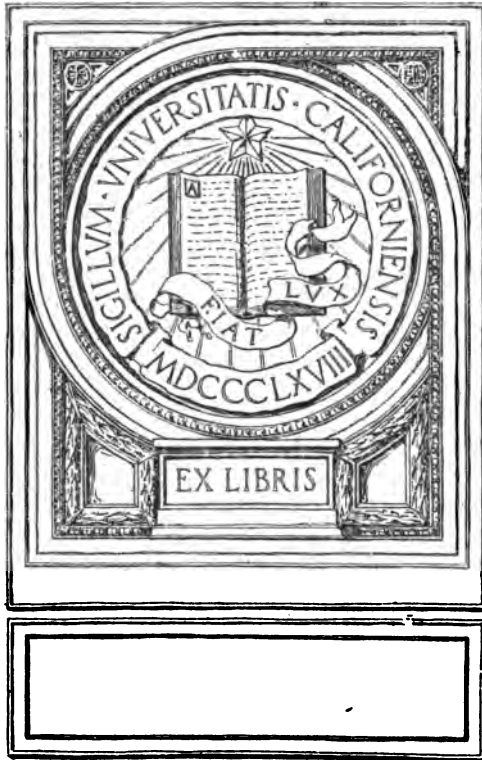
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UNITED STATES SECTION.

SCULPTURE.

- Adams, Herbert.**
 1. Bacchante.
 2. Meditation.
 3. William Cullen Bryant.
- Aitken, Robert.**
 4. Dancing Bacchante.
 5. Dancing Faun.
 6. Tired Mercury.
 7. A Thing of Beauty.
 8. William H. Taft.
 Lent by Mrs. W. H. Taft.
 9. Michael Angelo.
 10. Outer Darkness.
 11. Door for Gates Mausoleum.
 12. Commemorative Medal of the Panama-Pacific Exposition.
 Lent by the United States Govt.
- Akeley, Carl E.**
 13. The Wounded Comrade.
 14. Lion and Buffalo.
 15. Stung.
- Alfano, Vincenzo.**
 16. Mother's Love.
 17. Might Is Right.
 18. Quousque Tandem.
- Austin, Amanda P.**
 19. Saint John.
 20. Portrait of Miss Quinn.
- Baer, Lillian.**
 21. The Dance.
- Ball, Caroline Peddle.**
 22. Sun-dial.
- Barnhorn, Clement J.**
 23. Boy Pan with Frog.
- Bartlett, Paul Wayland.**
 24. Statue of Lafayette.
 25. Philosophy.
 26. Romance.
 27. Religion.
 28. Recumbent Lion.
 29. No title.
 30. No title.
 31. No title.
 32. No title.
- Bathurst, Clyde C.**
 33. Portrait of James Grafty.
- Beach, Chester.**
 34. Beyond.
- Berge, Edward.**
 35. Muse Finding Head of Orpheus.
 36. Sun Dial.
 37. The Scalp.
 38. Wild Flower.
 39. Boy and Frog Fountain.
- Bishop, Emily Clayton.**
 40. Greed.
 Lent by The Pennsylvania Academy of the Fine Arts.
 41. Study—No. II.
 42. The Finish.
 43. The Bacchic Dancer.
 44. Portrait.
 45. Study—No. III.
 46. The Greek Maiden's Dance of Joy.
 47. Portrait of Margaret Tew.
 48. Comedy.
 49. The Little Dancer.
 50. Classicism and the Renaissance.
 51. And as Pretty a Piece of Flesh as Any in Messina.—Dogberry (Shakespeare.)
 52. Portrait.
 53. Passing of the Seasons (Winter into Spring.)
- Bitter, Karl.**
 54. Memorial to Dr. Henry P. Tappan.
 Lent by University of Michigan.
 55. Fountain Group.
 Lent by John D. Rockefeller, Esq.
 56. Signing of Louisiana Purchase Treaty.
 Lent by City of St. Louis.
 57. Faded Flowers.
 58. Statue of Thomas Jefferson.
- Borglum, Solon H.**
 59. Washington: 1753.
- Brenner, Victor D.**
 60. Womanhood.
 61. Nature: the Consoler.
 62. Dr. A. Blackwell.
- Boyle, John J.**
 63. Returning From the Hunt.
 64. Stone Age.
 65. Tired Out.
 66. Colonel Barry Monument.
- Brooks, E. E.**
 67. Frame of Medals.
- Burrongs, Edith Woodman.**
 68. L'Arriere Pensee.
 69. Fenella.
 70. Vine Leaves.
 71. Garden Figure.
- Calder, A. Stirling.**
 72. The American Stoic.
 73. Historian.
 74. A Woman.
 75. Laughing Boy.
 76. Seated Athlete.
- Chamberlin, F. Toltec.**
 77. The Cup Bearer.
- Clevenger, Shobal Vail.**
 78. Washington Allston.
 Lent by The Pennsylvania Academy of the Fine Arts.
- Cohen, Nessa.**
 79. Navajo Watching Women at Work.
 80. Sunrise.
- Coonsman, Nancy.**
 81. Wistful Baby.
 82. Portrait of Old Woman.
- Corbett, Gail Sherman.**
 83. Sundial Boy.
 84. Bust of Rev. Samuel J. Calthrop.
 85. Chameleon Boy.
 86. Kirkpatrick Memorial Fountain.
- Crenier, Henri.**
 87. Girl and Butterflies.
- Dallin, Cyrus Edwin.**
 88. The Scout.
 89. Passing of the Red Man.
 90. My Boys.
 91. Arthur.
 92. Lawrence.
 93. Lincoln.
 94. Chief Antelope.
 95. Medicine Man.
 96. Cayuse at the Spring.
 97. On the War Path.
 98. Appeal to the Great Spirit.
 99. The Scout.
 100. Pretty Eagle.
 101. Paul Revere.
 102. Washakie.
 103. Standing Elk.
 104. Chief Joseph.
 105. Appeal of the Great Spirit.
 106. The Medicine Man.
 107. Apache.

108. Protect.
109. War or Peace.
110. My Mother.
111. Indian Hunter.
- Deming, Edwin Willard.**
112. The American Bison.
113. Friendly Tussle.
114. The Playing Bear.
115. Indian Hunter.
116. Maternity.
117. The Fight Between a Panther and a Grizzly Bear.
118. The Antelope or American Pronghorn.
- Dietsch, C. Percival.**
119. Destiny.
- Duveneck, Frank.**
119A. Memorial: Mrs. Duveneck.
Lent by the Cincinnati Museum Association.
- Eberle, Abastenia St. Leger.**
120. The Windy Door Step.
121. Dancing in Avenue A.
122. Slumber.
123. Mother Bathing Child.
124. Rag Picker.
125. Rag Time.
126. Solitude.
127. Bacchanale.
128. The Little Brother.
129. Washing.
130. Girl Skipping Rope.
131. Little Mother.
- Ellerhusen, Ulrich H.**
132. Buffalo—Gone!
133. Relief on Ludeke Monument.
- Fairbanks, Avarad.**
134. The Baby.
135. Old Bill Kidington.
- Farnham, Sally James.**
136. Cave Woman.
- Fenton, Beatrice.**
137. Peter Moran.
Lent by the Art Club of Philadelphia.
138. Caroline.
Lent by Gustavus Remak, Jr., Esq.
139. Marjorie D. Martenet.
- Flanagan, John.**
140. Frame of Medals.
141. Frame of Medals.
142. Frame of Medals.
- Fraser, James Earle.**
143. Portrait of G. C. Whitney.
144. Bust of J. E. C.
145. Portrait Study.
146. Portrait of J. G.
147. Flora and Sonny Whitney.
148. Portrait Bust.
149. Case of Medals.
- Frazer, John.**
150. Bust of John Frazer.
Lent by The Pennsylvania Academy of the Fine Arts.
- French, Daniel Chester.**
151. Earle Dodge Memorial: Princeton Student.
Lent by Princeton University.
152. Lincoln.
Lent by State of Nebraska.
153. Study of a Head.
154. Alice Freeman Palmer Memorial.
- Frishmuth, Harriet W.**
155. Saki: A Sun Dial.
156. Young Girl With Fish: A Fountain.
- Fromen, Agnes Volborg.**
157. The Last of His Tribe.
- Fry, Sherry Edmundson.**
158. Peace: Fountain Figure.
159. Chief Mahaska.
- Ganiere, George Etienne.**
160. Head of Lincoln.
- Gelbert, John.**
161. Evening Prayer.
162. Theseus Courting
- Graffy, Charles.**
163. The Surgeon.
Lent by The Pennsylvania Academy of the Fine Arts.
164. Thomas P. Anshutz.
Lent by The Pennsylvania Academy of the Fine Arts.
165. The Entomologist.
Lent by Henry L. Viereck.
166. Edwin Swift Olymer.
167. The Oarsman.
168. Maidenhood.
169. George Harding.
170. Edward W. Schofield.
171. Joseph R. De Camp.
172. William M. Paxton.
173. Edward W. Redfield.
174. Marble Head.
- Grimes, Frances.**
175. Mrs. Joseph Parsons.
176. George Goodyear, Esq.
177. Mrs. George Parsons.
178. Arthur Whiting.
179. Joseph Parsons.
180. Reginald Fincke, Jr.
181. Miss Fearmain.
182. Ralph Pultzer, Jr.
183. Mrs. O. H. Crane.
- Harvey, Eli.**
184. American Elk.
185. Lion combating.
186. Adonis: Young Greyhound.
187. Rex: Lion with Antelope.
188. Lioness Combating.
189. Adonis: Greyhound Recumbent.
190. Maternal Provisions.
191. Lion of the Desert.
- Heber, Carl Augustus.**
192. Bondage.
- Hering, Henry.**
193. Frame of Medallions.
194. Courage.
195. Peace.
196. Memory.
197. Devotion.
198. Running Diana.
199. Portrait Relief: Stephen H. Olin.
199A. Portrait Relief: Mr. Evarts Tracy.
200. Portrait Relief: Mrs. Tracy Dows.
201. Bust of Augustus Saint Gaudens.
202. L'Allegro.
- Hoard, Margaret.**
203. The Old Woman.
204. Eve.
- Hoffman, Malvina.**
205. Les Orientals: Pavlova and Novikoff.
206. Portrait Bust: Bonarius Grimson.
207. Russian Dancers.
208. Russian Bacchanale.
- Holm, Victor L.**
209. Prima Mater.
210. Halsey C. Ives, Esq.
211. Edmund Wuerpel, Esq.
- Hovenden, Martha M.**
212. Girl and Kitten: Sundial.
- Humphriss, Charles H.**
213. Indian Hunter.

- Hyatt, Anna Vaughan.**
 214. Fighting Elephants.
 215. Jaguar Reaching.
 216. Eight-Horse Group.
 217. L'Orage.
 218. Winter Group.
 219. Lion and Lioness Group.
 220. Colts in a Storm.
 221. Tiger Group.
 222. Great Dane.
 223. Great Dane.
- Jaegers, Albert.**
 224. Portrait: Uncle Joe Cannon.
- Johnson, Grace Mott.**
 225. Chimpanzees.
 226. Chimpanzees.
 227. Goat.
 228. Grayhound Pup.
- Kanno, Gertrude Boyle.**
 229. Head of William Keith.
 230. Takeshi Kanno.
- Kemeys, Edward.**
 231. Deer with Large Antlers: Standing.
 Lent by The Art Institute of Chicago.
 232. While the Mother Sleeps: Female Jaguar with Cubs.
 Lent by The Art Institute of Chicago.
 233. Battle of the Bulls.
 Lent by The Art Institute of Chicago.
 234. Peacock and Sleeping Rabbit.
 Lent by The Art Institute of Chicago.
 235. Lion. No. 847.
 Lent by The Art Institute of Chicago.
 236. Mad Panther.
 Lent by The Art Institute of Chicago.
 237. Wolf at Bay.
 Lent by The Art Institute of Chicago.
 238. A Mountaineer: Rocky Mountain Sheep.
 239. Buffalo and Wolves.
 240. Battle of the Bulls.
 Lent by the Art Institute of Chicago.
- Kendall, Sergeant.**
 241. Quest.
 242. Elisabeth.
 243. Breton Girl.
- Knight, Charles Robert.**
 244. Polar Bear.
 245. Leaping Tiger.
 246. Kodiak Bear.
- Kontl, Isidore.**
 247. Immortality of Genius.
 248. Surprise.
 249. Dying Melodies.
 250. Solace.
 251. Scherzo.
 252. Wood Nymph.
- Kratina, Joseph M.**
 252. Genius: Head of Baby.
- Krupka, Joseph.**
 254. Kiss of the Oceans.
- Ladd, Anna Coleman.**
 255. Sun-God and Python.
 256. Fountain Group.
 257. Sleeping Furies.
 258. Winged Head.
 259. Rock and Flower Group for Pool.
 260. Eleanora Duse.
 261. The Sword.
 262. The Human Instrument.
 263. High Tide: Low Tide.
 264. A Roman Lady.
- Laesale, Albert.**
 265. Turtle and Prey.
 266. King Crab and Beetle.
 267. Turning Turtle.
 268. The Squirrel.
 269. Chanticleer.
 270. King Fisher.
 271. Fantail Pigeon.
272. Heron and Fish.
 273. Frog and Katydid.
 274. The Bronze Turkey.
 275. An Outcast.
 276. The Contented Hop-toad.
 277. Locust and Pine Cone.
 278. The Old Bullfrog.
 279. Turtle and Snail.
 280. The First Step.
 281. Repletion.
 282. Young Turtle.
 283. La Source.
 284. The Hunter.
 285. Blue-eyed Lizard.
- Lee, Arthur.**
 286. The Nigger.
 Lent by Mrs. Harry Payne Whitney.
 287. The Virgin.
- Lichtenauer, J. Mortimer.**
 288. Statuette.
- Longman, Evelyn Beatrice.**
 289. Female Torso.
 290. Female Torso.
 291. Head of Bacchante.
 292. L'Amour.
- Lukeman, Augustus.**
 293. Diana.
- McCartan, E.**
 294. Pan.
- MacIntosh, William W.**
 295. Portrait Relief: Mrs. L. O. M.
- McKenzie, Robert Tait.**
 296. The Young Franklin.
- MacNeil, Carol Brooks.**
 297. First Lesson.
 298. The Wave.
 299. Farewell to the Fairies.
 300. Betty.
- MacNeil, Hermon A.**
 301. Girl with Young Satyr.
 302. Incoming Wave.
- Manatt, William N.**
 303. Nymph.
- Manor, Florence.**
 304. The Florence Madonna.
- Manship, Paul.**
 305. Little Brother.
 306. Prong-horn Antelope.
 307. Centaur and Dryad.
 308. Portrait of a Baby.
 309. Indian Hunter.
 310. Spring Awakening.
 311. Portrait Statuette.
 312. Playfulness.
 313. Lyric Muse.
 314. Satyr and Sleeping Nymph.
- Mazur, Wladyslaw.**
 315. Portrait.
 316. Coquetry.
 317. Motherless.
- Mora, Joseph J.**
 318. No Title.
 319. No Title.
 320. No Title.
 321. No Title.
 321. No Title.
 322. No Title.
 323. No Title.
 324. No Title.
- Muller, Olga Popoff.**
 325. Primitive Man.
 326. Head of Breton.
 327. Idyl.
 328. Meditation.
 329. Centaur.
- Neilsen, M. P.**
 330. Double Medallion: Louis and Hannah Sharngold.

- Noquet, Paul.**
 321. Weeping Man.
 322. Despair.
 323. Endless Grief.
 324. Soldier of Marathon.
 Lent by Gutzon Borglum, Esq.
- O'Connor, Andrew.**
 325. No Title.
 326. No Title.
 327. No Title.
 328. No Title.
 329. No Title.
 340. No Title.
- O'Donovan, William E.**
 341. Bust of Dr. Talcott Williams. Lent
 by Dr. Talcott Williams.
- Parsons, Edith Barretto.**
 342. Fountain; Duck Baby.
- Partridge, William Ordway.**
 343. Bust of Dr. Weir Mitchell.
- Patigian, Haig.**
 344. No Title.
 345. No Title.
 346. No Title.
 347. No Title.
 348. No Title.
 349. No Title.
 350. No Title.
- Perry, E. Hinton.**
 351. Daughter of Pan.
- Piccirilli, Attilio.**
 352. A Soul.
 353. Mater Consolatrix.
 354. A Faun's Tollet.
- Piccirilli, Furio.**
 355. Eurydice.
 356. Young Mother with Child.
- Pietro, C. L.**
 357. Mother of the Dead.
- Piets, Adam.**
 358. Louis G. Heinze.
- Polasek, Albin.**
 359. Portrait Bust of Frank D. Millet.
 360. The Sower.
 361. The Maiden of the Roman Campagna.
 362. Portrait Bust of Theodor N. Ely.
 363. Maternal Love.
 364. Aspiration.
 365. Portrait of a Baby.
 366. Fantasy.
 367. Portrait of a Boy.
- Pope, Alexander.**
 368. Our Vanishing Wild Life.
- Portnoff, Alexander.**
 369. Portrait Bust.
- Poupelet, Jeanne.**
 370. Cock.
 371. Donkey.
 372. Tollet.
- Pratt, Bela L.**
 373. Polo Player.
 374. Young Mother.
 375. Bust of My Mother.
 376. Upstream and Downstream.
 377. Boy with Fish.
 378. Bust of Mrs. Pratt.
 379. Echo.
 380. Study of a Young Girl.
 381. Edward Everett Hale.
 382. Nathan Hale.
 383. River Nymph.
 384. The Butterfly.
 385. Lord Amherst.
 386. St. Christopher.
 387. Large relief No. 1.
 388. Large relief No. 2.
 389. Whaleman.
- Proctor, A. Phimister.**
 390. Alaskan Brown Bear: Heao.
 391. American Horse.
 392. Buffalo. Q. H.
 393. Buffalo.
 394. Dog with Bone.
 395. Charging Elephant.
 396. Elk.
 397. Faun. First model.
 398. Indian on Horse.
 399. Princeton Tiger. 22-inch Reduction.
 400. Princeton Tiger. 9-inch Reduction.
 401. Silver King Fish.
 402. Lions.
 403. American Bison.
 404. American Bison.
- Putnam, Brenda.**
 405. The Parting.
- Quinn, Edmond T.**
 406. Audrey.
 407. Nymph.
 408. Nymph: Garden figure.
 409. Portrait of C. H. Chavant, Esq.
 410. Aspiration.
 411. Edwin Markham, Esq.
- Recchia, Richard H.**
 412. Bas-relief Portrait: H. E. Smith.
 413. Bas-relief Portrait: George Guest.
 414. Bas-relief Portrait: F. C. Recchia.
 415. Bas-relief Portrait: Bela L. Pratt.
 416. Golden Age No. 1.
 417. Golden Age No. 2.
 418. Relief: Boston Museum of Fine
 Arts No. 1.
 419. Relief: Boston Museum of Fine
 Arts No. 2.
 420. Relief: Boston Museum of Fine
 Arts No. 3.
- Remington, Frederick.**
 421. Rattlesnake.
 422. Cheyenne.
 423. Broncho Buster.
- Richards, Lucy.**
 424. The Lillies: A Sun Dial.
- Risque, Caroline Everett.**
 425. The Old One.
 426. In the Morning.
 427. Bird Fountain.
 428. Josef.
 429. Mère Colaer.
- Both, Frederick G. R.**
 430. The Booklover.
 431. Equestrienne.
 432. Hippopotamus.
 433. The Butcher.
 434. The Baker.
 435. The Candlestickmaker.
 436. Sea Lion.
 437. Calf.
 438. Seal.
 439. Polar Bear.
 440. Tug of War.
 441. Polar Bear.
- Rumsey, Charles Carey.**
 442. Study for Centaur.
 443. Lion Cub.
 444. Hound Andirons.
 445. Hound.
 446. Scratching Dog.
 447. Horse and Man Drinking.
 448. Calf and Colt.
 449. Stone Bull.
- Rush, William.**
 450. Bust of Lafayette.
 Lent by The Pennsylvania Acad-
 emy of the Fine Arts.
 451. Bust of William Rush.
 Lent by The Pennsylvania Acad-
 emy of the Fine Arts.

- Ryden, Henning.**
452. Frame of Medals.
- Sahler, Helen.**
453. Head of a Boy.
- Saint Gaudens, Annetta Johnson.**
454. Carlota Saint-Gaudens.
455. Edward and John Lancaster Burling.
456. Medallion: Baby.
457. Medallion: L. St. G.
458. Bedtime.
459. Paul Saint-Gaudens.
460. Louis Johnson.
- Saint Gaudens, Augustus.**
461. Seated Lincoln.
- Saint Gaudens, Louis.**
462. Medallion Portrait.
463. Head of Ceres.
464. Infant's Head.
- Salvatore, Victor H.**
465. Seeking.
466. Head of Old Lady.
467. Study of Old Man.
468. Youth.
469. Study of a Young Girl.
- Schulenburg, Adele E.**
470. Scrub Woman.
- Scudder, Janet.**
471. Sea Weed Fountain.
472. Young Pan.
473. Fighting Boys.
474. Flying Cupid.
475. Shell Fountain.
476. Little Lady of the Sea.
477. Frog Fountain.
478. Fahnestock Medallion.
479. Tortoise Fountain.
480. Young Diana.
- Simons, Amory O.**
481. Having a Hard Time.
482. Mastiff Dogs.
483. The Storm.
- Spicer-Simson, Theodore.**
484. Portrait of Miss Hilda.
- Stackpole, Ralph W.**
485. Charles Frederick Holder.
486. Head of Louis Sloss, Jr.
487. Nymph. Plaster.
488. Mrs. Sloss and Children.
- Sterling, Lindsey Morris.**
489. Fountain: Afraid.
490. Investigation.
491. Water Witch Girl.
492. Mischief.
493. The Awakening.
- Stewardson, Edmund Austin.**
494. Portrait of a Lady.
Lent by the Pennsylvania Academy of the Fine Arts.
495. Alexander Harrison.
Lent by the Pennsylvania Academy of the Fine Arts.
- Taft, Lorado.**
496. Fragment of Fountain of Time.
497. Fragment of Fountain of Time.
- Troubetzkoy, Paul.**
498. Mrs. Henderson.
499. Mrs. Crane.
500. Caruso.
501. Mr. Waterman.
502. Mrs. B. Harrison.
503. Mr. Shalkopf.
504. Mme. Svirky.
505. Lady Constantine Richardson.
506. Mrs. W. K. Vanderbilt.
507. Tolstoy on Horseback.
508. Miss B. Rutherford.
509. Samoyed Siberian Dogs.
510. Tolstoy.
511. Princess Troubetzkoy.
512. Mr. W. K. Vanderbilt.
513. Girl with a Lamb.
514. Hunting Dog.
515. Mrs. Ogden Mills.
516. How Can You Eat No Lamb?
517. Princess Troubetzkoy.
518. Mrs. Castle.
519. Baroness Robert Rothschild.
- Vonnoh, Bessie Potter.**
520. The Dance.
521. Good Night.
522. Youth.
523. Water Lillies.
524. A Young Mother.
525. Enthroned.
526. His First Journey.
527. Motherhood.
528. A Chance Acquaintance.
529. Girl Dancing.
530. The Scarf.
531. Grecian Draperies.
532. Butterflies.
533. Maidenhood.
534. The Intruder.
- Ward, John Quincy Adams.**
535. Shakespeare.
536. Henry Ward Beecher.
537. General Washington.
538. Simon Kenton.
539. Norseman.
540. Pilgrim: A Sketch.
541. Freedman.
542. Indian Hunter.
543. General Hancock.
- Warner, Olin L.**
544. Maude Morgan.
Lent by C. E. S. Wood, Esq.
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547. Mr. Cottier.
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548. J. Alden Weir.
Lent by C. E. S. Wood, Esq.
549. Cupid and Psyche.
Lent by C. E. S. Wood, Esq.
550. The Wood Children.
Lent by C. E. S. Wood, Esq.
551. Seltice.
Lent by C. E. S. Wood, Esq.
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Lent by C. E. S. Wood, Esq.
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Lent by C. E. S. Wood, Esq.
554. Maxwell Wood.
Lent by C. E. S. Wood, Esq.
555. Dancing Nymph.
Lent by C. E. S. Wood, Esq.
556. The Spinner.
Lent by C. E. S. Wood, Esq.
557. Mr. Woods: Medallion.
Lent by C. E. S. Wood, Esq.
558. Mrs. Woods: Medallion.
Lent by C. E. S. Wood, Esq.
559. Chief Moses: Sulu-Tash-Kosha.
Lent by C. E. S. Wood, Esq.
560. Young Chief: Cayuse Indian.
Lent by C. E. S. Wood, Esq.
561. N-Cha-Ask-We: Chief of the Coeur d'Alenes: Medallion.
Lent by C. E. S. Wood, Esq.
562. Yatin-Ee-An-Witz: Chief of the Cayuses: Medallion.
Lent by C. E. S. Wood, Esq.
563. Lot: Chief of the Spokanes.
Lent by C. E. S. Wood, Esq.
564. Chief Joseph: Chief of the Nez Perce Indians: Medallion.
Lent by C. E. S. Wood, Esq.

- Weinman, Adolph Alexander.**
 565. Study for Lincoln at Hodgenville.
 566. Frame of Medals and Plaques.
 567. Chief Blackbird.
 568. Heroic Courage.
 569. Portrait of W. R. M., Esq.
 570. Head of Lincoln.
 571. Descending Night.
 572. Lecture for Clark Memorial Chapel.
 573. Frame of Medals and Plaques.
Wendt, Julia M. Bracken.
 574. Life Saver.
 575. Mode Wineman.
 576. Carl Oscar Borg.
 577. Model: Chicago Society of Artists.
Wheelock, Lilla Audubon.
 578. Ski: Russian Wolf Hound.
Whitney, Gertrude Vanderbilt.
 579. Fountain.
- Worthington, Beatrice Maude.**
 580. Grief.
Wright, Alice Morgan.
 581. Beside the Pool.
 582. Wood Nymph.
 583. Piping Satyrs.
Young, Mahonri M.
 584. Tired Out.
 585. The Heavy Sledge.
 586. Stevedore.
 587. The Piper at the Gates of Dawn.
 588. Day Dreams.
 589. Scrub Woman.
 590. Peter Newell at Leonia.
 591. Shoveler.
 592. Chiseler.
Zettler, Emil Robert.
 593. Professor T. S.
 594. David P.

PAINTINGS AND DRAWINGS

- Abbey, Edwin A.**
 1001. The Penance of Eleanor.
 Lent by the Carnegie Institute.
 1002. Spring.
 Lent by Thomas L. Manson,
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 1003. Pavanne.
 Lent by Mrs. Whitelaw Reid.
 1004. The Wind.
 Lent by Samuel T. Peters, Esq.
 1005. The Lesson.
 Lent by Andrew Carnegie, Esq.
 1006. Three Queens.
 Lent by Frank Mead, Esq.
 1007. Gold Net.
 Lent by Frank Mead, Esq.
 1008. The Widow.
 Lent by Mrs. Edwin A. Abbey.
 1009. The Quiet Life: Illustration for
 "The Vicar."
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 field.
 1010. In the Library.
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 1011. Sally in Our Alley.
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 1012. The Bird to Others Flew: A Love
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 1013. Quince With His Own Hand.
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 1014. The Toast.
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 1015. Sally in Our Alley.
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 1017. Drawing No. 2.
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 1019. Drawing No. 4.
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 1020. Drawing No. 5.
 Lent by Mrs. Harry Paine
 Whitney.
 1021. St. Agnes' Eve.
 1022. Parson Dunkhardt.
- Ackerman, Olga M.**
 1023. At a Concert.
Adams, John Ottis.
 1025. Winter Morning.
 Lent by the Muncie Art Asso-
 ciation.
 1026. A Bit of the Whitewater.
Adams, Philip.
 1027. The Sailor.
 1028. At the Spring.
Ahrens, Ellen Wetherald.
 1029. Miss G. C.
 1030. A Brown Study.
 1031. Little Bert.
Aiken, Charles A.
 1032. Portrait.
Albert, Ernest.
 1033. Ten Above Zero.
Albright, Adam Emory.
 1034. The Hill Road.
Alexander, John W.
 1035. Phyllis.
 Lent by the City Art Museum:
 St. Louis.
Allen, Charles Curtis.
 1036. Mountain and Cloud.
Allen, Marion Boyd.
 1037. Enameling.
Allis, C. Harry.
 1038. Evening: Montreuil.
Allston, Washington.
 1039. Bacchanal.
 Lent by Albert Rosenthal, Esq.
Alma-Tadema, Sir Lawrence.
 1040. Among the Ruins.
Ames, Blanche.
 1041. General Adelbert Ames.
 1042. Pauline.
Anderson, Karl.
 1043. Fireflies.
Anderson, Martinus.
 1044. The Glittering Pageant.
Anshutz, Thomas P.
 1045. Portrait of a Little Girl.
 Lent by Mrs. John E. D. Trask.
 1046. The Incense Burner.
 Lent by Dr. Charles W. Gessler.
 1047. A Rose.
 Lent by William S. Pardee, Esq.

- Archambault, A. Margaretta.**
 1048. Mrs. Clementine Dalcour.
 1049. Miss Frances Brock.
 1050. Miss M. Smith.
 1051. Jacqueline.
- Arthur, Stanley Massey.**
 1052. Overland Transportation.
- Ashley, Clifford Warren.**
 1054. Chase of the Bowhead Whale.
- Austin, Amanda P.**
 1055. Market Scene: Port L'Abbe: Bretagne.
- Bacher, Otto H.**
 1056. July.
- Baer, William Jacob.**
 1057. Young Diana.
 1058. Mrs. E. R. Hewitt.
 1059. Loadicea.
 1060. Betty.
 1061. Girl with Violets.
 1062. Friends.
 1063. Doris.
 1064. Primavera.
 1065. Nymph and Cupid.
 1066. The Apple.
- Bail, Joseph.**
 1067. A Lesson in Lacemaking.
- Bains, Ethel Frantalin Betts.**
 1068. The Story of Hansel and Gretel.
 1069. The Frog Prince.
 1070. Rumpelstiltskin.
 1071. Snow White and Rose Red.
 1072. Cinderella.
 1073. The Story of the Six Swans.
- Baker, Bliss.**
 1074. Landscape.
 Lent by H. C. Henry, Esq.
- Baker, George A.**
 1075. Portrait of Charles L. Elliot.
- Baker, Samuel Burtis.**
 1076. Portrait of Miss Marion Howard.
- Bakhuysen, Jan.**
 1077. Marine with Figures.
- Balaxo, Paula Himmelsback.**
 1078. Parthenon: Moonlight.
- Ball, Robert E., Jr.**
 1079. The Palms.
 1080. Moonlight: Gothic Arch at St. Jean: Brittany.
- Ballin, Hugo.**
 1081. Sorrow.
- Barlow, M.**
 1082. Apples.
 1083. Flowers.
 1084. Fish Sellers.
- Barnard, Edward H.**
 1085. The Young Calves: Early August.
 Lent by the St. Botolph Club.
- Barnes, Gertrude.**
 1086. Girl with Persian Cat.
- Barnett, Tom P.**
 1087. Winter.
 Lent by the City Art Museum: St. Louis.
- Baroccio.**
 1088. Portrait of Prince of Urbino.
 Lent by Dan Fellows Platt, Esq.
 1089. Portrait of Prince of Urbino.
 Lent by Dan Fellows Platt, Esq.
- Bartlett, Frederic Clay.**
 1090. Spring Recess.
 1091. Our Country Dining Room.
- Bassano, Il. (Jacopo da Ponte).**
 1092. Nativity.
 Lent by William M. Paxton, Esq.
1093. Banquet of Dives.
 Lent by Dan Fellows Platt, Esq.
- Bastien-Lepage, Jules Emile.**
 1095. Le Reve Bleu.
 Lent by Albert Rosenthal, Esq.
- Baumgartner, Thomas.**
 1096. Lady in Furs.
- Baxter, Martha Wheeler.**
 1097. Theodore.
 1098. My Mother.
 1099. The Peacock Fan.
 1100. Portrait of Miss T.
 1101. Boy Driving.
- Beal, Gifford.**
 1102. The Gossips.
 1103. Summer Landscape.
 1104. Old Town Terrace.
 1105. The End of the Street.
- Beal, Reynolds.**
 1106. Orr's Mills.
 1107. Lawrenceville Lock.
- Beard, W. H.**
 1108. Having Taken Possession.
 Lent by Fred Sander, Esq.
- Beatty, John W.**
 1109. Plymouth Hills.
 Lent by the National Gallery.
 1110. Plymouth Sand Dunes.
- Beaumont, Lillian Adele.**
 1111. The Satin Gown.
- Beaux, Cecelia.**
 1112. New England Woman.
 Lent by The Pennsylvania Academy of the Fine Arts.
 1113. The Dreamer.
 1114. Sita and Sarita.
 1115. Dorothea and Francesca.
 1116. Portrait Study.
 1117. Portrait.
 1118. The Dreamer.
 1119. Ernesta.
- Becker, Benno.**
 1120. At Lake Como.
- Becker, Enlabe Dix.**
 1121. Portrait of Esther Hoyt.
 1122. Philip Dix Becker.
 1123. Mrs. John Graves.
- Becker, Maurice.**
 1124. The Older Generation.
 1125. The Boy and the Man.
- Beckington, Alice.**
 1126. Portrait of Mr. Lewis.
 1127. Helen.
 1128. The Morning Paper.
 1129. Study of a Head in Shadow.
 1130. Study in Blues and Greens.
- Beckwith, J. Carroll.**
 1131. Portrait of George Coleman, Esq.
- Beechey, Sir William.**
 1132. Mr. Monroe Furgeson.
 Lent by the Hackley Gallery: Muskegon: Michigan.
 1133. Group of a Nobleman's Family with a Dog.
- Beck, Alice D. Engley.**
 1134. Portrait Study.
- Belcher, Hilda.**
 1135. The Little Boston Girl.
 1136. Day-dreamer.
- Bell, Clara Louise.**
 1137. Elizabeth.
 1138. Little Girl with the Curls.
- Benda, W. T.**
 1139. Laila.
 1140. Amazones.
 1141. Amazones: II.

- Berlin, Harry.**
1142. Motherhood.
1143. Vermont Hills.
- Berneker, Louis F.**
1144. Coral and Blue.
- Berninghaus, Oscar E.**
1145. A Southwestern Pueblo.
- Bernstein, Theresa.**
1146. Open Air Show.
- Best, Hans.**
1147. Grandmother and Grandchild.
- Betts, Anna Whelan.**
1148. At the Window.
1149. The Promenade.
1150. The Candle.
1151. Coral Beads.
1152. Preparations for Bed.
1153. The Dancing Class.
1154. The Trundle Bed.
1155. A Winter Day.
- Betts, Louis.**
1156. Lady in White.
- Bierstadt, Albert.**
1157. Grand Lake: Colorado.
Lent by Miss Marion T. Meagher.
1158. No Title.
- Bissell, Helen Bathbun.**
1159. A German Interior.
1160. Old Melodies.
- Bittinger, Charles.**
1161. The Library of the Prince: Versailles.
1162. After Supper.
1163. Isabel.
1164. Vanity.
- Bixbee, William.**
1165. Winter.
- Blackburn, Jonathan B.**
1166. Portrait of Mrs. Willis.
Lent by Mrs. R. H. Patchin.
1167. Portrait of Mrs. Kennon.
Lent by Mrs. R. H. Patchin.
- Blakelock, Ralph A.**
1168. Sunset.
Lent by Henry Smith, Esq.
1169. Ecstasy.
Lent by Hackley Gallery: Muskegon: Michigan.
- Blaney, Dwight.**
1170. Anemone Cave: Mt. Desert.
1171. Solitude.
- Bliss, Alma Hersig.**
1172. An Italian Child.
1173. Study.
- Blumenschein, Ernest L.**
1174. Wise-Man: Warrior: Youth.
1175. Love of Life No. I.
1176. Love of Life No. II.
1177. The Peacemaker.
- Blumenschein, Mary Greene.**
1178. The Fan.
1179. A Girl.
1180. Valentine.
- Bodine, Helen.**
1181. Inseparable.
1182. Portrait.
- Bobrowsky, Grigori.**
1183. Portrait of a Woman.
- Bohm, Max.**
1184. Portrait.
1185. The Promenade.
1186. The Sea: Barbers.
- Bonheur, Rosa.**
1187. Goats at Rest.
- Bonington, Richard P.**
1188. Village Scene in Italy.
- Bonsall, Mary W.**
1189. Study of Old Man.
- Boone, Cora.**
1190. A Pot of Flowers.
1191. Tulips.
1192. Cinerarias.
- Borg, Carl Oscar.**
1193. Chateau Gaillard.
1194. Campagna Romana.
1195. Landscape.
Lent by Mrs. P. A. Hearst.
- Borie, Adolphe.**
1196. Nude.
1197. Lady with Black Scarf.
1198. A Woman Pensive.
1199. Spring.
- Bosley, Frederick A.**
1200. The Dreamer.
1201. Girl in Pink Dress.
1202. Interior.
1203. Girl Against Chinese Screen.
- Boston, Joseph H.**
1204. Mount Hamlin.
- Both, Jan.**
1205. Landscape.
- Boudin, E.**
1206. Sunset at Havre.
Lent by C. E. S. Wood, Esq.
- Boughton, George H.**
1207. The Fallen Angel.
Lent by F. C. Havens, Esq.
- Bourne, Gertrude B.**
1208. Rear View of Boston State House.
1209. Rhododendrons.
- Bowdoin, Harriette.**
1210. A Venetian Highway.
1211. A Bit of Sunshine.
- Bower, Alexander.**
1212. The White Shore.
- Boyle, Sarah Yocum McFadden.**
1213. Maid Marion.
1214. Peggie.
1215. Portrait of Dr. William H. McFadden.
- Boynton, Ray S.**
1216. Aphrodite.
1217. Spokane Valley.
1218. Young Diana.
1219. Vanity.
1220. Venus.
1221. Eve.
1222. A Boy.
- Bradford, William.**
1223. Caught in the Ice Floes.
- Bradley, Susan H.**
1224. Grand Canyon.
- Brascassat, Jacques Raymond.**
1225. Noonday Rest in France.
- Braun, Maurice.**
1226. Sunlit Hills: Southern California.
1227. The Hillside Morning.
1228. Hills and Valley: Southern California.
- Breckenridge, Hugh H.**
1229. Bowl of Fruit.
1230. Italian Pitcher and Fruit.
1231. Studio Interior: The Tapestried Wall.
1232. The Studio Window.
1233. Corner of the Garden.
1234. The Open Garden.
1235. Tapestry and Fruit.
1236. Still Life: Blue and Gold.
1237. Studio Interior: Chinese Jar.
1238. White Vase.

- Bredin, E. Sloan.**
1239. The Farm.
- Bremmer, Anne M.**
1240. Isabella.
1241. Gladiolas.
1242. The Fur Collar.
1243. The Village of Good Cheer.
1244. Marigold and Primrose.
- Breton, Jules.**
1245. The Vintage.
- Breuer, H. J.**
1246. Lake Louise.
1247. The Santa Inez Mountains.
1248. Mount Sir Donald.
1249. Mount Assinaboine.
- Breyfogle, John Winstanley.**
1250. The Serpent.
Lent by William H. Fox, Esq.
- Bringhurst, E.**
1251. Journalism.
- Brinley, D. Putnam.**
1252. Matins.
1253. Noon.
- Brooke, Richard Norris.**
1254. A Stony Outpost.
- Brouwer, Adriaen.**
1255. Head of Old Man.
- Brown, Benjamin Chambers.**
1256. Cliffs: Golden Gate.
1257. Over the Roofs: Antwerp.
- Brown, Charlotte Harding.**
1258. On the Hillside.
1259. The Squab Syndicate.
1260. Hump Yourself.
- Brown, George Loring.**
1261. Castello U'oba.
- Brown, John G.**
1262. The Detective Story.
- Browne, Charles Francis.**
1263. La Vacherie: France.
- Browne, George Elmer.**
1264. Port of Sottomarina.
- Brownell, Matilda.**
1265. Girl in the Chinese Porcelain Room.
1266. Girl with Columbine.
- Brumback, Louise Upton.**
1267. High Tide on the Beach.
1268. The Harbor: Gloucester.
- Bruno, Heinrich.**
1260. Picnic in the Woods.
- Bush, George de Frest.**
1270. Portrait of a Lady.
Lent by the Carnegie Institute.
1271. Andromeda.
1272. The Potter.
- Bryant, Everett L.**
1273. Peonies.
1274. Snapdragon.
1275. Wild Honeysuckle.
1276. Snapdragon and Fan.
- Bryant, Maudie Drenn.**
1277. Still Life: Crimson Ramblers.
1278. Still Life: Larkspur.
1279. Still Life: Asters.
- Badworth, Will S.**
1280. Early Spring: Wakefield Woods.
1281. Afternoon Shadows: Chestertown.
- Buehler, Lytton Briggs.**
1282. The City of Pleasure.
- Buehr, Karl Albert.**
1283. Dejeuner sur l'Herbe.
1284. Une Gage d'Amour.
- Bull, Charles Livingston.**
1285. Beauty and the Beast.
1286. The Sea Horse of Grande Terre.
- Bunker, Dennis M.**
1287. Portrait of Miss Anne Page.
Lent by Miss Anne Page.
1288. The Mirror.
Lent by the Art Club of Philadelphia.
- Burleigh, Sydney Richmond.**
1289. At the Wharf.
- Burmester, Ernst.**
1290. Railroad Bridge.
- Burnham, Anita Willets.**
1291. Day Dreaming.
1292. Napping.
1293. Twenty-first Chapter of Job.
- Burnside, C.**
1294. The Yellow Curtain.
- Bush, Ella Shepard.**
1295. A Fairy Tale Princess.
1296. A Kappa of Washington.
1297. Balaustion.
- Bush-Brown, Margaret Lesley.**
1298. Portrait of Moncure D. Conway.
1299. The Flute Lesson.
- Bushnell, Adelyn.**
1300. Portrait of an Old Man.
- Butler, Edward B.**
1301. The Brook.
- Butler, Howard Russell.**
1302. Spirits of the Twilight.
- Butler, J. J. P.**
1303. No title given.
- Butler, Mary.**
1304. Trees at Shubel's Mount: Nova Scotia.
- Butler, Theodore Earl.**
1305. Sunrise.
1306. Afternoon.
1307. Peonies.
- Button, Albert Prentice.**
1308. Girl of the Desert.
1309. In the Meadow.
1310. Girl in Gray.
1311. Ultima Thule.
1312. An October Day.
- Byne, Arthur.**
1313. Patio in an Old Posada in Alcala.
1314. An Old Palace in Avila.
1315. Tarragona Cathedral Seen from the Cloister.
1316. A Fountain in Lugo.
1317. A Toledan Tenement.
1318. Vigo from the Bay.
1319. Cathedral Silhouette: Zaragoza.
1320. The Bishop's Well: Palencia.
- Cadenasso, Guiseppa.**
1321. Summer.
1322. The Reflection.
- Cahill, Arthur.**
1323. Illustration for Western Story.
- Cahill, William V.**
1324. The Bed Book.
- Caliga, I. H.**
1325. Autumn.
- Callahan, Caroline E.**
1326. Le Petit Dejeuner.
- Camp, Harold M.**
1327. Turn in the River.
1328. Snow Clouds.
1329. A Hill Top.
- Carew, Berta.**
1330. The Late Archbishop Corrigan.

- Carles, Arthur B.**
 1331. Nude.
 1332. Torso.
 1333. Repose.
- Carlsen, Emil.**
 1334. The Open Sea.
- Carlson, John Fabian.**
 1335. Cloud Legions.
 1336. Silvered Acres.
 1337. Spring Morning.
 1338. Along the Stream.
 1339. Grey Woods.
 1340. Frost Bound.
- Carpenter, F. D.**
 1341. Portrait of Abraham Lincoln.
 Lent by the Union League Club,
 New York City.
- Carpenter, Fred G.**
 1342. The Gay Set.
- Carreno, Carreno de Miranda.**
 1343. Portrait.
 Lent by Dan Fellows Platt, Esq.
- Carriere, Eugene.**
 1344. Lady With Dog.
 Lent by Martin Ryerson, Esq.
- Carrigan, William L.**
 1345. Midsummer Masque.
- Case, B.**
 1346. View: Sidi Ben Said: Tunis.
- Caser, Ettore.**
 1347. Musical Moment.
 1348. Old Venice.
 1349. The Fire.
- Cassatt, Mary.**
 1350. Femme et Enfant Avec echarpe Rose.
 1351. Femme lisant dans un jardin.
 1352. Femme a l'eventail.
- Casterton, Eda Nomcoeds.**
 1353. Miss Pauline Batchelder.
- Cauldwell, L.**
 1354. Portrait of Colonel W.
- Casin, Jean Charles.**
 1355. The Repentance of Simon Peter.
 Lent by Rev. Frank W. Gun-
 saulus.
 1356. The Retreat.
- Champaigne, Philippe de.**
 1357. Richelieu.
 Lent by Albert Rosenthal, Esq.
- Chandler, H. C.**
 1358. Nevada Desert.
- Chapman, Carlton Theodores.**
 1359. The American Fleet Hoisting the
 Flag at Monterey, July 7th, 1846.
- Chapman, Charles S.**
 1360. The Marauder.
- Chappel, Alonzo.**
 1361. Lafayette: De Kalb: D'Estaing.
 Lent by Albert Rosenthal, Esq.
 1362. Surrender of Lee.
 Lent by Albert Rosenthal, Esq.
- Chase, Adelaide Cole.**
 1363. The Violinist.
 1364. Portrait of Mrs. Swan.
- Chase, Lila.**
 1365. Portrait.
 1366. Elizabeth.
- Chase, William Merritt.**
 1367. Portrait of Mrs. C.
 Lent by Carnegie Institute.
 1368. Woman With the White Shawl.
 Lent by the Pennsylvania Acad-
 emy of Fine Arts.
 1369. Day Dream.
 1369A. Portrait of Whistler.
 1370. Mrs. Mason.
 1371. Self Portrait.
1372. A Poor Man's Meal.
 1373. Orangerie.
 1374. Mrs. Vorzon.
 1375. Friendly Advice.
 1376. Mrs. Chase.
 1377. A Passenger Boat.
 1378. Venice.
 1379. Old Houses: Venice.
 1380. On a Grand Canal.
 1381. Italian Landscape.
 1382. Long Island Landscape.
 1383. Koto.
 1384. Study of a Young Girl.
 1385. Mrs. Labagean.
 1386. Fruit.
 1387. Portrait of Carriers.
 1388. Miss Emmett.
 1389. Helen.
 1390. R. U. Johnson.
 1391. Still Life: Fish.
 1392. Big Copper Kettle and Fish.
 1392. Back of the Villa.
 1394. Steichen.
 1395. Mrs. Sullivan.
 1396. Just Onions.
 1397. Portrait of an Artist.
 1398. Salute.
 1399. Mr. Sullivan.
- Chimona, Nicolas.**
 1400. Hellas.
 1401. Les Isles du Prince.
- Christmas, E. W.**
 1402. El Cristo de los Andes.
 1403. Moonlight in the Argentine.
- Church, Frederick Edwin.**
 1404. Niagara Falls.
 Lent by the Corcoran Galley of
 Art.
- Churchill, William W.**
 1405. The Model.
 1406. The Manuscript.
 1407. Pouring Tea.
- Clark, Alson Skinner.**
 1408. Sosa Hill From the Quarry.
 1409. The Cut From Empire.
 1410. Big Cranes: Miraflores.
 1411. Three Hills From Culebra.
 1412. Gates: Pedro Miguel.
 1413. Cucaracha Slide.
 1414. In the Cut.
 1415. Dredges Under Gold Hill.
 1416. Moving the Tressel.
 1417. Culebra Slide.
 1418. The Cranes: Miraflores.
 1419. In the Lock: Miraflores.
 1420. Pedro Miguel Locks.
 1421. In Tropical Waters.
 1422. Panama From the Pacific.
 1423. Market in Panama.
 1424. Gold Hill From Culebra.
 1425. First Dredges Through Gatun.
- Clark, Freeman.**
 1426. The Olimbers.
- Clark, Harriette A.**
 1427. Mme. Sherry.
 1428. Mrs. Lefevre.
 1429. Constance E. Fairchild.
- Clarke, Thomas Shields.**
 1430. The Dawn of New Life.
- Clarkson, Ralph.**
 1431. Portrait: Edson Keith.
- Clement, Catherine.**
 1432. Portrait.
- Clonney, James Goodwyn.**
 1433. Militia: Training.
 Lent by the Pennsylvania Academy
 of the Fine Arts.
- Closson, William Baxter.**
 1434. A Glimpse of the Sea.

- Clute, Walter Marshall.**
1435. Romance.
- Cockroft, Edythe Varien.**
1436. Portrait Study.
1437. Girl Reading.
- Coffin, William Anderson.**
1438. Early Morning in May.
1439. September Afternoon.
1440. A March Evening.
- Cohen, Lewis.**
1441. The Great Bridge: Toledo.
1442. A Stronghold of the Scaligers.
- Cole, George Townsend.**
1443. Mrs. Gregory McLaughlin.
1444. Miss Aileen McCarthy.
1445. Mrs. H.
- Cole, J. Foxcroft.**
1446. Landscape With Cattle.
- Cole, Thomas.**
1447. Landscape.
1448. Four Sketches of the Voyage of Life.
- Cole, Thomas Casleair.**
1449. Portrait of a Lady.
- Coleman, Charles Caryl.**
1450. Sorrow.
- Coleman, Samuel.**
1451. Caravan in the Desert.
Lent by the Hillyer Art Gallery, Smith College.
- Colwell, Elizabeth.**
1452. The Sea From Penobscot Light-house.
- Coman, Charlotte Buell.**
1453. Pocono Hills in Winter.
- Comegys, George H.**
1454. The Ghost Story.
Lent by the Pennsylvania Academy of the Fine Arts.
- Conant, Lucy Scarborough.**
1455. The Beloved Pine: Campfer.
1456. Piz Languard From Rosegg Valley.
1457. The Matterhorn.
1458. The Sella Joch: Dolomites.
1459. The Jungfrau at Noon.
1460. The Silver Lakes of the Engadine.
- Conant, Marjorie.**
1461. Late Afternoon.
- Congdon, T. E.**
1462. The Greenroom.
- Connell, E. D.**
1463. The Dunes.
- Conner, John Ramsey.**
1464. Cottage Interior.
1465. The Little Seamstress.
- Coolidge, Bertha.**
1466. Portrait of a Russian Girl.
1467. Portrait of Miss E. L. V.
1468. Woman in White.
1469. Portrait of Mrs. R.
1470. Portrait of Miss Gertrude Fiske.
- Coolidge, Mary Rosamond.**
1471. Portrait of S. Burtis Baker.
1472. Portrait: Miss S.
1473. The Old-Fashioned Gown.
- Cooper, Collin Campbell.**
1474. The White House.
1475. A Salem Residence.
1476. Mountain at Gruyeres: Switzerland.
1477. Bowling Green: New York.
1478. Beauvais Cathedral.
1479. Fifth Avenue: New York.
- Cooper, Emma Lampert.**
1480. Temple at Jaipur.
1481. Side Street: Beauvais.
- Copley, John Singleton.**
1482. Portrait of Mrs. Elizabeth Willing Powell.
Lent by the Pennsylvania Academy of the Fine Arts.
- Coques, Gonzales.**
1483. Burgomeister and Family.
Lent by Charles M. Cooke, Esq.
- Cornoyer, Paul.**
1484. Winter: Columbus Circle.
1485. Old New York.
- Corot, Jean Baptiste Camille.**
1486. Landscape.
Lent by Caroline A. McClees.
1487. Boy Sketching.
Lent by Mrs. Henrietta E. Failing.
- Courbet, Gustave.**
1488. Study of a Thoroughbred.
Lent by Albert Rosenthal, Esq.
1489. Young Man With Violincello.
Lent by O. E. S. Wood, Esq.
- Couse, E. Irving.**
1490. The Turquoise Beadmaker.
1491. An Indian Shepherd.
1492. Twilight: Taos Pueblo.
- Cox, Kenyon.**
1493. Plenty.
Lent by the National Gallery.
- Cox, Louise.**
1494. Mayflowers.
Lent by the National Gallery.
1495. A Daughter of Eve.
- Crane, Bruce.**
1496. The Templed Hills.
- Crisp, Arthur.**
1497. The Philanderer.
1498. A Song Hit.
1499. The Little Spinster.
1500. "Dim Yesterday's Pageant Back-grounds Today."
- Crome, John (Old Crome).**
1501. The Blasted Tree.
- Cropsey, Jasper F.**
1502. On the River.
Lent by Harry W. Watrous, Esq.
- Cross, Sally.**
1503. Portrait: Miss Lillian Gardener.
1504. Portrait of Miss Turner.
1505. Mrs. Quincy.
1506. Miss Dora Wetherbee.
1507. Portrait of Miss McKay and Peter.
1508. Portrait of Olin Downes, Esq.
- Crowley, Gray Price.**
1509. Mrs. Alfred Gray.
- Cucuel, Edward.**
1510. The Bath.
1511. Summertime.
1512. The Girl in Yellow.
1513. Autumn Sun.
- Cuneo, Rinaldo.**
1514. Notre Dame: Paris.
- Curran, Charles C.**
1515. Daffodils.
- Currier, J. Frank.**
1516. A Munich Boy.
Lent by the Carnegie Institute.
1517. Whistling Boy.
Lent by the John Herron Art Institute.
1518. Self Portrait.
Lent by William M. Chase, Esq.
A Head.
Lent by J. Harsen Rhoades, Esq.
- Curtis, William Fuller.**
1519. The Golden God.

- Cushing, Howard Gardiner.**
 1520. Decorative Panel.
 1521. Decorative Panel.
 1522. Decorative Panel.
 1523. Interior.
 1524. Portrait.
 1525. Portrait.
 1526. Wardrobe.
- Dabo, Leon.**
 1527. The Rockets: Rain of Fire.
- Dagnan-Bouveret, Pascal Adolphe Jean.**
 1528. Consolatrix Affictorum.
- Dana, Charles Edmund.**
 1529. The Canon's House: Gruyere's.
 1530. St. Augustine: Fribourg.
 1531. Morat.
 1532. Treves.
 1533. Bazaar Okair Zoht.
 1534. Abazzia San Gregorio: Venice.
 1535. Bad-el-Metawaleh: Cairo.
 1536. Bazaar: Gama Ibrahim Aga: Cairo.
- Daubigny, Charles Francois.**
 1537. The New Moon.
 Lent by Charles F. Adams, Esq.
- Davey, Randall.**
 1538. Captain Dan Stevens: Lighthouse Keeper.
 1539. Girl in Blue.
 1540. Segovian Man.
- Davis, Charles H.**
 1541. The Northwest Wind.
 1542. May Morning.
- Davis, Stuart.**
 1543. The River.
 1544. The Fog.
 1545. A Back Yard.
 1546. The Cafe Logue.
- Davol, Joseph Benjamin.**
 1547. Maine Coast.
 1548. A Winter Coast: Moonlight.
 1549. Where Sea and River Meet.
- Dawson, George Walter.**
 1550. An Old Cottage Rose.
 1551. A New England Garden.
 1552. Yellow Harrison Roses.
 1553. Rhododendrons.
 1554. Rose-Covered Wall: Spain.
 1555. White Water Lily.
 1556. Water Lily Among Rushes.
- De Camp, Joseph E.**
 1557. Portrait of Frank Duveneck.
 Lent by the Cincinnati Museum Association.
- De Jong, Betty.**
 1558. Beatrix.
 1558. The Dancing Girl.
 1560. Portrait of Miss Isabelle P.
- De Voll, F. Usher.**
 1561. East River: New York: Winter.
 1562. Quebec From the Fortifications.
 1563. The White City.
 1564. Brooklyn Bridge: Winter.
- de Wentworth, Cecile.**
 1565. Portrait of William Howard Taft.
 1566. Taper to Saint Genevieve.
- Del Mue, Maurice.**
 1567. Late Afternoon in the Sierras.
- Deming, Adelaide.**
 1568. A Quiet Day.
- Deming, Edwin Willard.**
 1569. Prayer to the Manes of the Dead.
 1570. Vow of Vengeance.
- Dewey, Charles Melville.**
 1571. The Harvest Moon.
- Diaz, Narcisso Vergilio de la Pena.**
 1572. No title.
- Dillaye, Blanche.**
 1573. The God of Good Fortune.
 1574. The Evening Star.
 1575. On the Grand Morin.
 1576. Moonlight.
- Dimock, E.**
 1577. Sweat Shop Girls in the Country.
 1578. East Side School Children.
 1579. Group.
 1580. Group.
 1581. Group in New England.
 1582. Sweat Shop Girls in the Country.
- Dirks, Rudolph.**
 1583. On the Dike.
 1584. The Boatman.
 1585. Head of Old Dutchman.
 1586. Clearing Land.
- Dixon, Maynard.**
 1587. Navajo Women.
 1588. The Trail in Oregon.
 1589. The Palomino Mare.
- Dolph, J. H.**
 1590. The Rat Who Retired From the World.
 Lent by Mrs. H. F. Barnett.
- Donoho, Euger.**
 1591. The Rose Terrace.
 1592. A Veil of Leaves.
 1593. Wind Flowers.
 1594. A Garden.
- Dougherty, Parke C.**
 1595. Moonlight.
 1596. Mount St. Michel.
 1597. Winter Morning: Etretat.
- Dougherty, Paul.**
 1598. Toward the Sunlight.
 1599. Changing Weather.
 1600. Storm Gleams.
 1601. From Clodgy Point.
- Doughty, Thomas.**
 1602. On the Susquehanna.
 Lent by the Pennsylvania Academy of the Fine Arts.
 1603. Landscape.
 Lent by the Pennsylvania Academy of the Fine Arts.
- Dow, Arthur Wesley.**
 1604. The Great Shadow.
 1605. The Enchanted Mesa.
- Du Bois, Guy Pene.**
 1606. Trapeze Performer.
- Duez, E.**
 1607. By the Sea Shore.
- Dufner, Edward.**
 1608. Portrait: A Ray of Sunlight.
 1609. Summer Evening.
 1610. Moonlight on the Lake.
 1611. Reflections.
- Dull, John J.**
 1612. Winter Landscape: No. 1.
 1613. Winter Landscape: No. 2.
 1614. Winter Landscape: No. 3.
 1615. Winter Landscape: No. 4.
- Dumond, Frederic Melville.**
 1616. 1849.
 1617. Portrait Sketch of Babette de Cernoe.
 1618. Hoss Tradin' on the Reservation.
 1619. Ratón Pass.
 1620. Sea Carvings.
- Dumond, Frank Vincent.**
 1621. The Bathers.
 1622. May Bloom.
 1623. July Afternoon.
 1624. Gray Newfoundland.
 1625. The Elopers.
 1626. The Fairy Tale.
- Dumond, Helen Savier.**
 1627. An Arm of the Mediterranean.
 1628. Southern France.

- Dunbar, Harold C.
1629. Girl in Black.
1630. Portrait of Mrs. D.
- Dunlap, Helena.
1631. The Dressing Table.
1632. Mountain Cottages.
1633. The Senator's Garden.
1634. Summer Afternoon.
- Dunlap, William.
1635. Portrait.
Lent by Albert Rosenthal, Esq.
1636. Portrait.
Lent by Albert Rosenthal, Esq.
1637. President Tyler.
Lent by Albert Rosenthal, Esq.
1638. Portrait of a Lady.
Lent by Albert Rosenthal, Esq.
1639. Scene from Harvey Birch: The Spy.
Lent by Albert Rosenthal, Esq.
- Durand, Asher Brown.
1640. The Morning of Life.
Lent by the National Academy of Design.
1641. The Thunder Storm: Catskills.
Lent by H. K. Bush-Brown, Esq.
1642. A. B. Durand as a Young Man.
- Durkee, Helen Winalow.
1643. Baigneuse.
1644. Portrait of Miss D.
1645. Margaret.
1646. The Spanish Shawl.
1647. Hilda.
1648. William Ives, Esq.
1649. Autumn.
1650. Still Life.
1651. Kadidje.
1652. A Study.
1653. The Flowered Dress.
1654. Still Life.
1655. Portrait.
- Dustin, Silas S.
1656. Midnight in New England.
- Duvencek, Frank.
1657. Beechwoods: Polling: Bavaria.
Lent by the Cincinnati Museum Association.
1658. Unfinished Portrait Study.
Lent by the Cincinnati Museum Association.
1659. Head of a Young Girl.
Lent by the Cincinnati Museum Association.
1660. Girl's Head.
Lent by the Cincinnati Museum Association.
1661. Young Man With Red Skull Cap.
Lent by the Cincinnati Museum Association.
1662. Girl's Head: Yellow Background.
Lent by the Cincinnati Museum Association.
1663. Blind Old Man.
Lent by the Cincinnati Museum Association.
1664. Sketch of a Nude.
Lent by the Cincinnati Museum Association.
1665. Study of a Nude Back.
Lent by the Cincinnati Museum Association.
1666. Young Man With a Ruff.
Lent by the Cincinnati Museum Association.
1667. Blacksmith.
Lent by the Cincinnati Museum Association.
1668. Whistling Boy.
Lent by the Cincinnati Museum Association.
1669. John W. Alexander.
Lent by the Cincinnati Museum Association.
1670. Head: Portrait of Mr. Mills.
Lent by the Cincinnati Museum Association.
1671. Man With Red Hair.
Lent by the Cincinnati Museum Association.
1672. Woman With Forget-Me-Nots.
Lent by the Cincinnati Museum Association.
1673. Portrait of Man in Spanish Costume.
Lent by the Cincinnati Museum Association.
1674. Portrait of William Adams.
Lent by the Cincinnati Museum Association.
1675. Turkish Page.
Lent by the Pennsylvania Academy of the Fine Arts.
1676. Italian Boy.
Lent by George E. Hopkins, Esq.
1677. The Hunchback.
Lent by Miss Jane Otis.
1678. Portrait of Frank Currier.
Lent by Alfred Juergens.
1679. Blue Boy.
Lent by Mrs. D. H. Holmes.
1680. Lady With a Veil.
Lent by George E. Hopkins, Esq.
1681. Portrait of Professor Loeffts.
Lent by Mrs. Herman Goepper.
1682. Portrait: Mrs. Francis Hinkle.
Lent by W. H. Hinkle, Esq.
1683. Woman With a Fan.
Lent by M. A. De Wolfe Howe, Esq.
1684. Sketch of a Turk.
Lent by the Tavern Club.
1685. Portrait.
Lent by William M. Chase, Esq.
1686. Portrait Sketch.
Lent by the Tavern Club.
1687. Laguna: Venice.
Lent by Cincinnati Museum Association.
1688. Venetian Bridge.
Lent by Cincinnati Museum Association.
1689. Riva degli Schiavoni No. 2.
Lent by Cincinnati Museum Association.
1690. Grande Canal: Venice.
Lent by Cincinnati Museum Association.
1691. Bridge of Sighs.
Lent by Cincinnati Museum Association.
1692. The Rialto: Venice.
Lent by Cincinnati Museum Association.
1693. Piazza San Marco: Venice.
Lent by Cincinnati Museum Association.
1694. View of the Grande Canal: Venice.
Lent by Cincinnati Museum Association.
1695. Palazzo Ca Doro: Venezia (1883).
Lent by Cincinnati Museum Association.
1696. In the Bay of Venice.
Lent by Cincinnati Museum Association.
1697. Ponte Vecchio: Florence (1884).
Lent by Cincinnati Museum Association.
1698. San Pietro in Castlido: Venice.
Lent by Cincinnati Museum Association.
1699. Riva degli Schiavoni: Venice No. 1.
Lent by Cincinnati Museum Association.

- Eakins, Thomas.**
 1700. The Bohemian.
 1701. Portrait of Henry O. Tanner.
 1702. The Veteran.
 1703. The Home Ranch.
 1704. The Crucifixion.
 1705. The Concert Singer.
- Eaton, Charles Warren.**
 1706. The Shawangunk Valley.
 1707. Summer Night: Lake Como.
- Ebert, Charles.**
 1708. The Fog Bow.
 1709. Monhegan Headlands.
 1710. Early November.
- Edmondson, William J.**
 1711. The Garden.
- Edwards, George Wharton.**
 1712. No-Man's Ledge: Monhegan.
- Eichholtz, Jacob.**
 1713. Portrait: Mr. Arundel.
 Lent by Albert Rosenthal, Esq.
 1714. Portrait: Mrs. Arundel.
 Lent by Albert Rosenthal, Esq.
 1715. Portrait of Unknown Man.
 Lent by Dr. Gilbert L. Parker.
- Eisenlohr, E. G.**
 1716. First Furrows.
- Elliott, Charles Loring.**
 1717. Portrait of Colonel Thomas L. McKenney.
 Lent by the Corcoran Gallery of Art.
 1718. Portrait of H. W. Hewitt.
 Lent by the Art Institute of Chicago.
 1719. Portrait of Mrs. Mary A. Goulding.
- Elliott, Elizabeth Shippen Green.**
 1720. The Princess.
 1721. Antoine and the Little Wooden Soldier.
 1722. The Moon World.
 1723. The First Communion.
 1724. Inspector Joly.
 1725. Queen Cophetua.
 1726. Queen Jehan and Ricci.
 1727. Elizabeth.
- Engel, Otto H.**
 1728. Picnic on the Beach.
- Engelbrechtsen, Cornelis.**
 1729. Lot and His Daughters.
 Lent by Dr. Gilbert L. Parker.
- English, Frank F.**
 1730. River Wensum: Norwich.
 1731. A Delaware Village.
 1732. Cobb's Creek.
 1733. A Home at Brookville.
 1734. Millbank: Upper Darby.
 1735. A Mill on Cobb's Creek.
 1736. A Summer Evening.
 1737. Yarmouth.
 1738. Folly Bridge: Oxford.
 1739. Norwich.
- Enneking, John Joseph.**
 1740. November Twilight.
 1741. December Thaw.
- Ericson, David.**
 1742. The Late Tea.
 1743. Low Tide.
- Esser, Theodor.**
 1744. Interior.
- Evans, Frances.**
 1745. Portrait.
- Everett, Herbert Edward.**
 1746. Cottage Garden.
 1747. Garden at Pipestave Hill.
- Fairchild, May.**
 1748. The Rose.
- Farley, Richard Blossom.**
 1749. Blue and Gold.
 1750. Barnegat Beach.
 1751. Dunes at Barnegat.
- Farndon, Walter.**
 1752. Wistaria Arbor.
- Fassett, Truman E.**
 1753. Spanish Dancer.
 1754. Portrait: Mrs. Fassett.
- Fechin, Nicholas.**
 1755. Lady in Pink.
- Feldman, Baruch M.**
 1756. Portrait Study: Introspection.
- Fenderson, Annie M.**
 1757. Portrait of Wilhelmina.
- Ferguson, Nancy M.**
 1758. The Old Homestead.
 1759. A Rural Lane.
 1760. The Barber Shop.
- Fernow, Bernice P. Andrews.**
 1761. Pierpont Edwards Dutcher: Third.
 1762. Childhood.
 1763. Mrs. E. J. Smith.
 1764. Mrs. Charles Palmer.
- Filemyr, Joseph J.**
 1765. The Silent Hour.
- Fink, Denman.**
 1766. Portrait of Mrs. F.
- Fink, F.**
 1767. Portrait of Artist in His Studio.
- Finkelnburg, Augusta.**
 1768. My Woodsie Park.
 1769. The Old Homestead.
- Finn, James Wall.**
 1770. Girl With a Fan.
- Firebaugh, Nettie King.**
 1771. Professor Joseph Le Conte.
 1772. Mrs. August Porter.
- Fiske, Gertrude.**
 1773. The Shadow.
 1774. Study in Black and White.
- Fitz, Benjamin B.**
 1775. The Harvesters.
 Lent by the Hillyer Art Gallery: Smith College.
- Fletcher, Charles Noel.**
 1776. Portrait of Paul Wayland Bartlett.
 Lent by L. A. Wiley & Son.
- Flagg, Jared.**
 1777. Portrait of Judge Brown.
 Lent by the City of New York.
- Folger, Annie B.**
 1778. October Hillside: Nantucket.
 1779. November Day: Nantucket.
- Foot, Josephine J.**
 1780. Junior.
- Foot, Mary.**
 1781. Portrait of Mrs. Herman Kobbé.
 1782. Mrs. John Carpenter.
 1783. Portrait of August Jaccaci, Esq.
 1784. Study.
 1785. Portrait of Miss Matilda Brownell.
- Foot, Will Howe.**
 1786. Italian Girl's Head.
 1787. Gloucester Harbor.
 1788. Sunny Interior.
 1789. Hydrangeas.
- Foresman, Alle.**
 1790. Portrait: Irish Rose.
 1791. Portrait.
- Forsyth, William.**
 1792. Winter in the Hills.
 1793. The Red Hill.
 1794. A Sunny Corner.
 1795. The Wind From the West.

- Fortune, E. Charlton.**
 1796. The Galloway Inn.
 1797. Moonlight.
 1798. Betty.
 1799. Summer.
 1800. Carmel Mission.
 1801. The Pier.
 1802. The San Gabriel Vine.
- Fortuny y Carbo, Mariano.**
 1803. The Model: A Sketch.
 Lent by the Pennsylvania Academy of the Fine Arts.
 1804. The Arab Blacksmith.
 Lent by Mrs. Reginald Smith.
- Foss, Harriet Campbell.**
 1805. Pink Phlox.
- Foster, Ben.**
 1806. October Morning.
- Fournier, Alexis Jean.**
 1807. Peaceful Night on the Seine.
 1808. Morning in Venice.
- Frieseke, Frederic Carl.**
 1809. The Garden Chair.
 1810. Sleep.
 1811. Youth.
 1812. Boudoir.
 1813. Girl Embroidering.
 1814. The Bay Window.
 1815. The Garden.
 1816. Summers.
- Froelich, Maren M.**
 1817. The Chinese Robe.
- Fuller, George.**
 1818. Lorette.
 Lent by the Corcoran Gallery of Art.
 1819. A Head.
 Lent by W. B. Ayer, Esq.
 1820. Marguerite.
- Fuller, Henry B.**
 1821. Triumph of Truth Over Error.
- Fuller, Lucia Fairchild.**
 1823. The Girl and the Net.
 1823. In the Days of King Arthur.
 1824. Portrait of a Child.
 1825. Artemidora.
 1826. The Red Flower.
- Funk, Wilhelm.**
 1827. Mrs. John W. McKinnon.
- Gaensslen, Otto Robert.**
 1828. Youth.
- Gainsborough, Thomas.**
 1829. Sir Wm. Lynch.
 Lent by the Hackley Art Gallery: Muskegon.
 1830. Landscape.
 Lent by Charles M. Cooke, Esq.
 1831. A Grand Landscape.
- Gale, Harriette Draper.**
 1832. Study in Brown.
- Gallagher, Sears.**
 1833. From the Bridge.
- Galt, Charles Franklin.**
 1834. The Etcher.
 1835. The Gypsy.
- Garber, Daniel.**
 1836. Sister.
 1837. The Sunlit Wall.
 1838. Quarry: Evening.
 1839. Cherry Blossoms.
 1840. Little Village: Winter.
 1841. From Tinicum Hill.
- Garrett, Edmund.**
 1842. Heart of New England.
- Gauley, Robert David.**
 1843. Reverie.
 1844. Portrait: Pedro de Cordoba.
- Gay, Walter.**
 1845. Les Pigeons Savantes.
 Lent by Albert Rosenthal, Esq.
- Gelhaar, Emil.**
 1846. Packer Hall.
- Gifford, Sanford R.**
 1847. The Golden Horn.
 Lent by Hon. Charles H. Carey.
- Gihon, C.**
 1848. Peasant Houses.
 1849. Haunted House.
 1850. A Corner: Rue de Vauglrand.
- Gilchrist, Wallace W., Jr.**
 1851. Girl in Pink.
 1852. The Old Gold Screen.
 1853. A Quiet Sea.
 1854. Rocks: The Maine Coast.
 1855. The Fish Dock.
 1856. Towards the Sun.
 1857. Twin Birches.
 1858. Incoming Tide.
- Gilmore, Ada.**
 1859. Promenade.
- Glackens, William J.**
 1860. Woman with Apple.
 1861. Chez Moquin.
 1862. Family Group.
 1863. Girls Bathing.
 1864. Green Car.
- Gleason, Charles K.**
 1865. The Carriers.
- Glintenkamp, Henry J.**
 1866. Wind Gap.
- Goetsch, Gustav F.**
 1867. Marblehead.
 1868. In the Harbor.
 1869. Marblehead Harbor.
 1870. The Harbor.
 1871. On the Harlem River.
- Gohler, Hermann.**
 1872. Schloss Favorite.
- Goodwin, Arthur Clifton.**
 1873. Boylston Street: Boston.
 1874. T Wharf: Boston.
 1875. Boylston Street: Boston.
- Gotthold, Florence Wolf.**
 1876. The Yellow Cat.
- Goya y Lucientes, Francisco Jose de.**
 1877. Don Juan Jose Perez Mora.
 Lent by the Hackley Gallery: Muskegon.
 1878. Portrait of Isadoro Marquez.
 Lent by Martin A. Ryerson, Esq.
- Grabach, John B.**
 1879. Banks of the Connecticut River.
- Grant, L.**
 1880. Fishing Boats: Concarneau.
- Granville-Smith, Walter.**
 1881. The Boat Shop.
 1882. Summer Breeze.
 1883. The Landing.
 1884. Queen's Lace.
 1885. Clearing Mists.
- Gray, Frederick G.**
 1886. Early Morning.
 1887. Portrait Study: Hon. Joseph C. Cannon.
 1888. Portrait.
- Gray, Henry Peters.**
 1889. Cupid Begging His Arrows.
 Lent by the Pennsylvania Academy of the Fine Arts.
- Gray, Percy.**
 1890. Out of the Desert: Oregon.
- Griffin, J. W.**
 1891. River Lee: Cork.

- Griffin, Walter.**
 1892. Church of S. Trovaso: Venice.
 1893. Late Afternoon: Breton Village.
 1894. Springtime.
 1895. Grand Canal: Venice No. 1.
 1896. Grand Canal: Venice No. 2.
 1897. May Morning.
 1898. Bridge: Venice.
 1899. Zattere: Venice.
- Groll, Albert Lorey.**
 1900. Arizona Desert.
 1901. Lake Louise.
 1902. Peace: Hopiland.
- Grossman, Edwin Booth.**
 1903. Still Life.
- Grover, Oliver Dennet.**
 1904. Ponte Vecchio: Florence.
 Lent by Mrs. J. B. Blackstone.
 Rocky Shore: Lake Garda.
 1905.
- Guerin, Jules.**
 1906. Pigeon Mosque: Constantinople.
 1907. Temple of Sunium.
 1908. Eyub on the Golden Horn.
 1909. The Great Bazaar: Constantinople.
 1910. The Mosque of Sulleman: Constantinople.
 1911. Cairo: The Blue Mosque.
 1912. Landscape Near Siena.
 1913. The Three Wise Men.
- Guido of Siena.**
 1914. Madonna.
 Lent by Dan Fellows Platt, Esq.
- Gustin, Paul Morgan.**
 1915. Great Cloud.
 1916. Mountain Snowfields.
 1918. The Cascades from Pyramid Park.
 1918. Mount Rainier.
 1919. November Evening: Puget Sound.
 1920. A Clearing in the Northwest.
- Gutmann, Bernhard.**
 1921. Nude.
- Haggin, Ben All.**
 1922. Little White Dancer.
- Hailman, Johanna K. Woodwell.**
 1923. A Tropical Menage.
 1924. To Market in the West Indies
 1925. Tony.
- Hale, Lillian Westcott.**
 1926. Portrait.
 1927. Lavender and Old Ivory.
 1928. Bleeding Hearts.
 1929. Anemonies.
 1930. The Fortune Teller.
 1931. Madonna Lillies.
 1932. Portrait of Nancy.
 1933. China Asters.
 1934. Gardenia Rose.
 1935. Celia's Arbor.
- Hale, Philip Leslie.**
 1936. Sun Bath.
 1937. La Princesse Lointaine.
 1938. A Family Affair.
 1939. Lillies of the Madonna.
 1940. Autumn Fruits.
 1941. A Passing Hour.
 1942. Wisteria and the Mysterious Miss Wistar.
 1943. The Tower of Ivory.
 1944. Portrait.
 1945. Woman with Roses.
- Hale, Walter.**
 1948. The Walk Along the Ramparts.
 1946. Ruined Castle on the Neckar.
 1947. The Chapel on the Rock: Le Puy.
- Hall, Kleber.**
 1949. Constance.
- Hallowell, George Hawley.**
 1950. Wood's Lake.
 1951. Island Lake.
 1953. The Driving Pitch.
 1954. The Logan.
 1955. The Snow Path.
 1956. The Choppers.
- Halpert, Samuel.**
 1957. Interior.
 1958. Lake George.
 1959. Still Life.
- Hambuchen, Wilhelm.**
 1960. Early Autumn Morning.
- Hamilton, James.**
 1961. Old Ironsides.
 Lent by the Pennsylvania Academy of the Fine Arts.
 1962. The Ancient Mariner.
 Lent by the Pennsylvania Academy of the Fine Arts.
- Hamilton, John McLure.**
 1963. Sketch.
 1964. Gladstone.
 1965. Pennell.
 1966. Sir A. Serke.
 1967. Mother.
- Hamilton, Mary Riter.**
 1968. Old Woman: Study.
 1969. The Poor.
- Hamilton, Wilbur Dean.**
 1970. Portrait.
 1971. Portrait of Justice McKenna.
 1972. Spring.
- Hammond, Arthur J.**
 1973. The Old Artist.
- Hansen, Armin O.**
 1974. At the Breakfast Table.
 1975. The Belated Boat.
- Harding, Chester.**
 1976. John Randolph of Roanoke.
 Lent by the Corcoran Gallery of Art.
- Harding, George.**
 1977. Night: Australian Desert.
 1978. The Wreckers.
 1979. The Fisherwoman.
 1980. Colombo Harbor.
 1981. Busy Day at the Docks.
- Harland, Mary.**
 1982. Italian Fisherman.
- Harper, Marian Dunlap.**
 1983. My Dear.
 1984. Miss G.
- Harrison, Alexander.**
 1985. The Joy of Life.
 1986. Sun: Sea.
 1987. Wave Glitter.
 1988. Sun Glitter.
 1985. Moon Clouds.
 1990. Nature's Mirror.
- Harrison, Birge.**
 1991. White Wings.
 1992. Evening in Philadelphia.
 1993. The Tow on the Lake.
 1994. The Red Saw Mill.
- Hart, James McD.**
 1995. On the Croton.
 Lent by Fred Sander, Esq.
- Hartman, C. Bertram.**
 1996. Two Natures.
- Haseltine, Charles F.**
 1997. Summer Day in New Hampshire.
 1998. Summer Day in the Woods.
- Haseltine, William Stanley.**
 1999. Cannes.

- Hassam, Childs.**
 2000. *Puerta del Sol*: Toledo.
 2001. *Isles of Shoals: Duck Island*.
 2002. *Newfields: New Hampshire*.
 2003. *The Old Home with Elms*.
 2205. *The Squall: Gloucester*.
 2006. *Lannion*.
 2007. *Moonrise at Sunset*.
 2208. *Brittany Cottage*.
 2009. *Happy Valley: Harney Desert*.
 1010. *Skull Springs: Oregon*.
 2011. *Der Groot House: Haarlem*.
 2012. *The Quails: Lannion*.
 2013. *The Fete of Lannion: Grey Evening*.
 2014. *Brelevenez: 2nd*.
 2015. *Aphrodite*.
 1016. *St. Michaels: Lannion*.
 2017. *La Clarte*.
 2018. *Brelevenez*.
 2019. *Street in Haarlem*.
 2020. *The Blue Sea: Appledore*.
 2021. *Weir's Farm: the Rain*.
 2022. *Cathedral Spire: Antwerp*.
 2023. *The Terre Cuit Tea Set*.
 2024. *The Strawberry Tea Set*.
 2025. *The Woman with Black Furs and Fire Opals*.
 2026. *Sunset: New England Coast*.
 2027. *In the Shadow of the Vine*.
 2028. *The South Ledges*.
 2029. *The Yachts: Gloucester Harbor*.
 2030. *Diana's Bath*.
 2031. *Portrait of a Young Girl*.
 2032. *The Ancient Window of Nemours*.
 2033. *The West Indian Girl*.
 2034. *New England Peaches and Grapes*.
 2035. *Couch on the Porch: Cos Cob*.
 2036. *Reading the Letter*.
 2037. *California Hills in Spring*.
- Hawes, Stephen.**
 2038. *Na Aissama: a Fijian Village*.
 2039. *Vakamololo Dance: Fiji: 1*.
 2040. *Vakamololo Dance: Fiji: 2*.
 2041. *Vakamololo Dance: Fiji: 3*.
 2042. *Vakamololo Dance: Fiji: 4: Three Girls*.
 2043. *Na Moala: Fiji Islands*.
 2044. *Fort Dei Marmi: Liguria*.
- Hawley, Margaret Foote.**
 2045. *Portrait of Clarence Williams*.
 2046. *Portrait of Miss Jean Hooke*.
 2047. *Sketch of a Jewish Boy*.
 2048. *Portrait of Miss Barbara Quin*.
- Haworth, Edith.**
 2049. *Gibraltar*.
 2050. *Midsummer*.
 2051. *Cypress Tree*.
 2054. *Village Street: Provincetown*.
 2052. *African Coast*.
 2053. *Rainy Evening*.
- Hawthorne, Charles Webster.**
 2055. *The Market Woman*.
 2056. *Une Fille d'un Pescheur*.
 2057. *Mother and Child*.
 2058. *Granddaughter*.
- Hayden, Charles H.**
 2059. *Landscape*.
- Hazelton, Mary Brewster.**
 2060. *Reverie*.
 2061. *The Letter*.
- Hasen, Wilhelmina.**
 2062. *Twin Pearls*.
 2063. *La Senora G.*
 2064. *Brownie*.
- Healy, G. P. A.**
 2066. *Daniel Webster*.
 Lent by John Frederick Lewis.
- Hecht, Victor David.**
 2066. *Portrait of Mrs. Irving Stern*.
- Hell, Charles Emile.**
 2067. *Bluejay*.
 2068. *Field Sparrow*.
 2069. *Young Bluejay*.
 2071. *Young Catbird: Phoebe*.
 2072. *Black-cap Chickadee*.
 2074. *Golden-crowned Kinglet No. 1*.
 2075. *Golden-crowned Kinglet No. 2*.
- Hellwag, Rudolph.**
 2076. *The Pool of London*.
- Helsby, Alfredo.**
 2077. *Chilean Farmhouses in Spring*.
 2078. *A Coming Storm in the Andes*.
- Henderson, A. Elizabeth.**
 2079. *Lessons*.
 2080. *The Daily Chapter*.
 2081. *The Violin*.
- Henri, Robert.**
 2082. *Blue Kimono*.
 2083. *Herself*.
 2084. *Lady in Black Velvet*.
 2085. *Yen Tsid (Ground Sparrow)*.
 2086. *Chinese Lady*.
 2087. *Odallsque*.
 2088. *Himself*.
- Henry, Edward Lamson.**
 2089. *The Presidential Election of 1844*.
- Herkomer, Herman G.**
 2090. *Mrs. Hamilton Griffin*.
 2091. *Sir Hubert von Herkomer, R. A.*
 2092. *Portrait: William Harvey, Esq.*
- Herr, Margaret.**
 2093. *Malvina*.
 2094. *Portrait of Miss Dougal*.
- Heusermann, Magda.**
 2095. *My Father*.
 2096. *Franz von Lenbach*.
 2097. *Miss Virginia*.
- Hicks, Thomas.**
 2098. *A Friendly Warning*.
 Lent by Robert M. Olyphant, Esq.
- Higgins, Eugene.**
 2099. *The Strange Land*.
- Hildebrandt, Cornelia Ellis.**
 2100. *Baby's Head*.
- Hills, Laura Coombs.**
 2101. *Psyche*.
 2102. *Miss Margaret Curzon Hale*.
 2103. *The Nymph*.
 2104. *Portrait*.
 2105. *The Morning Cup*.
 2106. *Little Agnes*.
 2107. *Girl with Violets*.
- Hinkle, Clarence K.**
 2108. *Portrait*.
- Hitchcock, George.**
 2109. *Vanquished*.
 2110. *En Brabant*.
- Hittle, Margaret A.**
 2111. *Flower Beds at Reissigo*.
- Hobart, Clark.**
 2112. *The Blue Bay: Monterey*.
- Hoerber, Arthur.**
 2113. *Spray*.
 2114. *The Meadow Brook*.
- Hoffman, Harry Leslie.**
 2115. *Saturday Morning: Savannah Market*.
 2116. *A Mood of Spring*.
- Hogarth, William.**
 2117. *Viscountess Irwin*.
 Lent by the Hackley Gallery:

- Hollister, Antoinette B.**
2118. Bavarian Peasant Mother and Child.
- Holmboe, Thorolf.**
2119. Elder Ducks.
- Homer, Winslow.**
2120. The Wreck.
Lent by the Carnegie Institute.
2121. Unruly Calf.
Lent by the Brooklyn Museum.
2122. The Coming Storm.
Lent by the Lotos Club; New York City.
2123. An Adirondack Lake.
Lent by C. H. Henry, Esq.
2124. Afternoon Fog.
Lent by John Calvin Stevens, Esq.
2125. Gathering Autumn Leaves.
2126. The Home Signal.
2127. The Water Melon Bug.
2128. Sunlight and Shadow.
2129. The Yellow Jacket.
2130. Fisherfolks: Tynemouth.
2131. A Country Lad.
2132. The Butterfly.
2133. Summer Afternoon.
- Hooper, Rosa.**
2134. Doesn't Your Mamma Wash Your Face?
2135. A Frenchman.
2136. Grandfather.
- Hopkins, J.**
2137. Beside the Lake.
- Hopkins, James B.**
2138. Mandarin Blue.
2139. Frivolity.
2140. Memories.
- Hopkinson, Charles.**
2141. Effect of Light.
2142. Effect of Light.
2143. Effect of Light.
2144. Effect of Light.
2145. Portrait.
2146. Knitting.
2147. Salem Bay: Massachusetts.
- Hoppner, John.**
2148. The Marchioness of Wellesley and Children.
- Houlehan, Kathleen.**
2149. Portrait.
- Hevenden, Thomas.**
2150. Peonies.
Lent by Edward H. Coates, Esq.
2151. Breaking Home Ties.
Lent by Charles Custos Harrison, Jr.
- Howard, Clara E.**
2152. Cadet.
- Howe, William Henry.**
2153. Low Lands: Holland.
- Howland, Alfred C.**
2154. At Cernay la Ville.
2155. At Manchester: Vermont.
2156. Saturday Afternoon.
- Howland, Allen S.**
2157. Portrait of Miss A.
2158. Portrait Study.
- Hubbard, Mary Wilson.**
2159. A Portrait Sketch.
- Hubbell, Henry Salem.**
2160. The Crimson Charger.
- Hubner, Ulrich.**
2161. Clear Weather.
- Hudspeth, R. N.**
2162. Miss Dorothy Dodge.
2163. Rev. Canon Tremayne.
- Hunt, William Morris.**
2164. The Flight of Night.
Lent by the Pennsylvania Academy of the Fine Arts.
2165. Woman's Portrait.
Lent by Mrs. Inez Gilmore.
2166. Landscape: Newtonville: Mass.
- Hunter, Sara Katherine.**
2167. Study of a Head.
- Huntington, Daniel.**
2168. Sketcher.
Lent by the Brooklyn Museum.
- Huntington, Margaret Wendell.**
2169. Still Life.
- Hurley, Edward Timothy.**
2170. Murmuring.
2171. The New Year.
- Hurley, Irene Bishop.**
2172. Portrait of Mrs. H.
- Hurry, Lucy W.**
2173. The Concert in the Garden.
2174. Waiting for the Stagecoach.
2175. The Peacock.
- Hutchison, F. W.**
2176. A Northern River.
- Hyde, William Henry.**
2177. Vera.
- Hyett, Will J.**
2178. Cross Roads: Ravenrock.
- Ingersoll, Emma K. H.**
2179. Portrait Sketch.
2180. Baby Dan.
2181. Mary Meigs.
- Inman, Henry.**
2182. Portrait of Henry Pratt.
Lent by the Pennsylvania Academy of the Fine Arts.
2183. Mumble-the-Peg.
Lent by the Pennsylvania Academy of the Fine Arts.
2184. Picnic on the Catskills.
Lent by the Brooklyn Museum.
- Inness, George.**
2185. The Clouded Sun.
Lent by the Carnegie Institute.
2186. In the Berkshire Hills.
Lent by the Rhode Island School of Design.
2187. The Coming Storm.
Lent by the Buffalo Fine Arts Academy.
- Irvine, Wilson.**
2188. Laughing June.
2189. The Bathing Beach.
2190. The Chasm.
- Isham, Samuel.**
2191. In the Park.
Lent by the Buffalo Fine Arts Academy.
- Israels, Joseph.**
2192. Poor Man's Harvest.
- Italian School.**
2193. No Title.
2194. No Title.
- Jackson, Annie Hurlburt.**
2195. Mrs. Pickering Almy.
2196. Lapis Lazuli.
2197. Helen Kreck.
2198. Baby's Head.
2199. Child's Head.
2200. Little Newsle.
2201. The Blue Mantle.

- Jakobi, Ruth.**
 2202. On the Sand.
 2203. The Beach.
 2204. Brooklyn Bridge.
 2205. Atlantic City.
 2206. City Square.
 2207. Silent Street.
 2208. Reaping.
 2209. Towards Evening.
 2210. Water Front.
- Jamar, S. Corinne.**
 2211. Bob.
- James, William.**
 2212. Portrait Study.
- Jansson, Alfred.**
 2213. Illinois Landscape.
- Jarvis, John Wesley.**
 2214. Portrait of a Gentleman.
 Lent by Clarence Winthrop Bowen, Esq.
- Jay, Cecil.**
 2215. Bacchante Dansante.
 2216. Maternity.
 2217. Maternity.
 2218. Maternity.
 2219. The Love Letter.
 2220. La Jupe Dechiré.
- Jewett, William.**
 2221. Portrait: Samuel L. Waldo.
 Lent by the National Academy of Design.
- Johansen, John Christen.**
 2222A. Venetian Arcade.
 2222B. The Rider.
 2222C. Portrait of Miss F. B.
 2222D. Village Rider.
 2222E. Approaching Storm.
- Johnson, David.**
 2223. Portrait: William S. Mount.
 Lent by Albert Rosenthal, Esq.
- Johnson, Eastman.**
 2224. A Drummer Boy.
 Lent by the Union League Club: New York City.
 2224A. Henry Codman Potter: Bishop of New York.
 2224B. Edwin Booth.
- Johnson, Harry L.**
 2225. Moon Before Sundown.
 2226. The Inquiry.
 2227. The Garden.
 2228. Wind in the Clouds.
 2229. Mother and Child.
 2230. Mother and Child.
 2230. Early Spring: Rose Valley.
 2231. Charybdis.
- Jones, Francis C.**
 2232. The Divan.
- Jones, Hugh Bolton.**
 2233. Through the Trees.
- Jones, Leon Foster.**
 2234. Long Island Village.
 2235. A Misty Day in Winter.
- Jouett, Matthew Harris.**
 2236. Artist's Wife.
 Lent by R. H. Menefee, Esq.
 2237. Portrait of Boy and Dog.
- Juergens, Alfred.**
 2238. In May.
 2239. Garden Flowers.
- Jung, C. Jac.**
 2240. Winter Afternoon.
- Kaelin, Charles S.**
 2241. Bits of Snow.
 2242. Boats in Harbor.
 2243. Old Mill.
- Kaiser, Richard.**
 2244. From an Old Park.
- Kaula, Lee Lufkin.**
 2245. On the Old Settle.
- Kaula, William J.**
 2246. Clouds from the West.
- Keith, William.**
 2247. Revelation.
 Lent by Mrs. E. N. Harmon.
 2248. Quiet Pool.
 Lent by Mrs. E. N. Harmon.
 2249. Shepherdess.
 Lent by Mrs. E. N. Harmon.
 2250. Sunset.
 Lent by Mrs. E. N. Harmon.
 2251. Landscape.
 Lent by Mrs. Reginald Smith.
 2252. Grey Morning.
 Lent by Mrs. Mary C. Richardson.
 2253. Landscape.
 Lent by Mrs. Mary C. Richardson.
 2254. Sketch.
 Lent by Mrs. Mary C. Richardson.
 2255. Water Color.
 Lent by Mrs. Mary C. Richardson.
 2256. The Impression.
 Lent by Mrs. Mary McHenry Keith.
 2257. Spirit of Music.
 Lent by Mrs. Mary McHenry Keith.
 2258. Midsummer Night's Dream.
 Lent by Mrs. Mary McHenry Keith.
 2259. Landscape.
 Lent by the Joseph Worcester Estate.
 2260. No. Title.
 Lent by the Joseph Worcester Estate.
 2261. Landscape. No. 1.
 Lent by Mrs. Henrietta Zeile.
 2262. Landscape. No. 2.
 Lent by Mrs. Henrietta Zeile.
 2263. Landscape. No. 3.
 Lent by Mrs. Henrietta Zeile.
 2264. Landscape. No. 4.
 Lent by Mrs. Henrietta Zeile.
 2265. Landscape. No. 5.
 Lent by Mrs. Henrietta Zeile.
 2266. Landscape. No. 6.
 Lent by Mrs. Henrietta Zeile.
 2267. Cloudy Day.
 2268. Rainy Day.
 2269. The Symphony of Peace.
 2270. Portals of the Woods.
 2271. Silent Hour.
 2272. Storm.
 2273. Into the Storm.
 2274. Landscape.
 2275. Water Color.
- Keller, Arthur I.**
 2276. The Bach Double Concerto.
 2277. The Young Critic.
- Keller, Edgar.**
 2278. Under the Bridge: Harlem River.
- Kelly, Hannah E.**
 2279. When Roses Bloom.
- Kendall, Margaret.**
 2280. Miss Helen Huntington.
 2281. Springtime.
 2282. In the Brook.
 2283. Bruno and His Mistress.
 2284. Three Little Sisters.

- Kendall, Sergeant.**
 2285. Alison.
 2286. Venetian Brocade.
 2287. Devotion.
 2288. Reflection.
 2289. Phantasmata.
- Kensett, John Frederick.**
 2290. Rapids: Niagara Falls.
 Lent by Robert M. Olyphant, Esq.
 2291. In the Adirondacks.
 Lent by Robert M. Olyphant, Esq.
 2292. Mallett's Bay: Lake Champlain.
 Lent by Robert M. Olyphant, Esq.
 2293. Autumn Afternoon.
 Lent by the National Academy of Design.
- Kent, Rockwell.**
 2294. A Mother and Her Sons.
- Kindlund, Anna Belle Wing.**
 2295. Madeleine Dabo.
 2296. Love.
 2297. Lady in Black.
- King, Charles B.**
 2298. John O. Calhoun: When Secretary of War.
 Lent by Corcoran Gallery of Art.
- King, Edith Laurence.**
 2299. Nude.
 2300. On the Beach: Capri.
- King, Paul.**
 2301. Winter.
 2302. Snug Harbor.
- Kips, Erich.**
 2303. Steamer in Dock: Hamburg.
- Kirkpatrick, William A.**
 2304. Pleasing Reflections.
- Klein, Tillie V. Ryan.**
 2305. Portrait of Sir Wilfred Laurier.
 2306. Portrait of William Keith.
 2307. Portrait of Mrs. Thomas E. Flynn.
- Kneller, Sir Godfrey.**
 2308. Portrait.
 Lent by Albert Rosenthal, Esq.
- Knirr, Heinrich.**
 2309. Self Portrait.
- Knox, James.**
 2310. White Swan.
- Kohn, Irma.**
 2311. The Lighthouse on the Pier: St. Ives.
 2312. Street in Stratford-on-Avon.
- Kopman, Benjamin D.**
 2313. Portrait of a Young Man.
 2314. Plucking a Goose.
- Kretzinger, Clara Josephine.**
 2315. A Thoughtful Moment.
- Krimmell, John Lewis.**
 2316. Fourth of July in Centre Square.
 Lent by the Pennsylvania Academy of the Fine Arts.
- Kroll, Leon.**
 2317. River Industries.
 2318. Weehawken Terminal.
 2319. Lower Manhattan.
 2320. Rockport Quarries.
- Kronberg, Louis.**
 2321. Ballet Girl in Green.
 2322. Preparing for the Dance.
 2323. The Exercise.
 2324. The Visitor.
- Kyle, Joseph.**
 2325. Portrait Group.
 Lent by Albert Rosenthal, Esq.
- La Farge, John.**
 2326. Woman Centaur.
 Lent by the Brooklyn Museum.
 2327. Portrait of Richard Hunt.
 2328. The Hillside Farm.
 2329. Our Boatman.
 2330. The Willow.
 2331. The Ravine.
- Lamb, F. M.**
 2332. Our New England.
 2333. Threatening.
- Lampert, Gertrude A.**
 2334. Black and Green.
- Lang, Annie Traquair.**
 2335. From My Window: Venice.
 2336. The Gray Kimona.
 2337. The Hotels: Venice.
 2338. Japanese Print.
- Langhorne, Katherine.**
 2339. Rhode Island Pool.
 2340. A Day Last Summer.
- Langtry, Mary.**
 2341. A September Night: Ipswich.
 2342. Personally Conducted.
- La Touche, Gaston.**
 2343. The Masquerade Ball: Grand Opera House: Paris.
- Lathrop, William Langson.**
 2344. Coming Storm.
 Lent by Mrs. Genge Ellery Woods.
 2345. The Canal.
 Lent by George Coffing Warner.
 2346. Golden Afternoon.
 2347. A Grey Day.
 2348. Landscape.
 2349. Summer Afternoon.
- Lavery, John.**
 2350. Portrait.
 Lent by Dan Fellows Platt, Esq.
- Lawrence, Sir Thomas.**
 2351. Portrait of a Young Man.
 Lent by Albert Rosenthal, Esq.
 2352. Lady Margaret: Second Daughter of the Earl of Kinnoull.
- Lawson, Ernest.**
 2353. Hills at Innwood.
 2354. Beginning of Winter.
 2355. Hudson River and Palisades.
- Le Brun, Charles.**
 2356. The Family of Darius at the Feet of Alexander.
 Lent by Art Institute of Chicago.
- Leigh, William Robinson.**
 2357. The Stampede.
- Lely, Sir Peter.**
 2358. Portrait of a Lady.
 Lent by F. Tillmann, Esq.
- Lenbach, Franz von.**
 2359. Self Portrait.
 Lent by the San Francisco Institute of Art.
 2360. Portrait of Mommsen.
 Lent by Mrs. Henrietta Ziele.
- Lepine, Stanislas.**
 2361. St. Cloud on the Seine.
 Lent by Martin A. Ryerson,
 2362. River Scene.
 Lent by Charles F. Adams,
- Leutze, Emanuel.**
 2363. Portrait of Nathaniel Hawthorne.
 Lent by Henry Fairfield Osborn, Esq.
 2364. Columbus Discovering America.

- Lever, Hayley.**
 2365. Saint Ives Harbor.
 2366. Winter: Harlem River.
 2367. Smeaton's Quay: St. Ives.
 2368. St. Ives Fishing Boats.
 2369. Washington Bridge.
- Levy, William Auerbach.**
 2370. Central Park Impression.
 2371. Song of Summer.
 2372. Rainy Night.
 2373. Normandy Fishermen.
- Levy, Beatrice S.**
 2374. The Draftsman.
- Lewis, Edmund D.**
 2375. Upper Delaware River.
- Lewis, Helen V.**
 2376. Portrait of C. R. Baxter, Esq.
 2377. The Fichu.
 2378. An American.
 2379. Editha.
 2380. Miss Whitelaw.
 2381. Miss Lakeman.
 2382. Portrait of an Actor.
 2383. Miss Madge Kennedy.
 2384. Miss H. Draper.
 2385. Katherine.
- Lichtenauer, J. Mortimer.**
 2386. Study for Shubert Theatre.
 2387. Study for Harris Theatre.
- Lie, Jonas.**
 2388. Palms in Wind.
 2389. Gates at Pedro Miguel.
- Liljestrom, Gustav F.**
 2390. Vishnu Temple: Grand Canyon.
- Linde, Ossip L.**
 2391. A Gateway in Venice.
 2392. Venice.
 2393. Steps: Venice.
 2394. Chloggia: Venice.
- Lindin, Carl Eric.**
 2395. Evening.
- Lindford, Charles.**
 2396. Landscape: Pennsylvania.
- Lippincott, William Henry.**
 2397. Love Finds the Way.
- Little, John Wesley.**
 2398. In Devonshire.
- Little, Philip.**
 2400. An Upland Meadow.
 2401. The Upper Ipswich.
 2402. The Making of New Lands.
- Lockman, De Witt M.**
 2403. Portrait of Miss D.
- Loeb, Louis.**
 2404. The Bud.
 Lent by William Scott Bond, Esq.
 2405. The Peacock.
 Lent by Emanuel Loeb, Esq.
- Lökke, Marie.**
 2406. Portrait of a Child.
- Londoner, Amy.**
 2407. Park Bench.
 2408. The Fairy Tale.
 2409. Woman in Black.
 2410. Trees and Mountains.
 2411. The Bathers.
 2412. Boardwalk: Atlantic City.
 2413. Cripple Creek.
 2414. A Strange House.
- Longacre, Lydia Eastwick.**
 2415. Portrait of Mr. Gino C. Speranza.
 2416. Miss Helene Pupke.
- Lopez-Masquita, José M.**
 2417. Matador.
 2418. A Spanish Gipsy.
- Lowdon, Elsie Motts.**
 2419. Portrait of D. B. C.
- Loy, Mina.**
 2420. Lillah, Gaby and Amaranthe.
 2421. The Etruscan Loggia.
- Lucas, Jean Williams.**
 2422. Man with Ruff.
 2423. Mrs. Frederick M. Thomas.
 2424. Paddie Cat and Mistress.
 2425. Mrs. Alfred Williams Lucas.
 2426. Miss Agnes Rogers.
- Ludovici, Alice E.**
 2427. Portrait of Miss Ludovici.
- Luni, Bernardo.**
 2428. The Angel.
 Lent by Dan Fellows Platt, Esq.
- Luke, Kathryn Logan.**
 2429. The Little French Model.
 2430. Portrait of Mrs. Phillip Campbell.
- Luka, George.**
 2431. New York Boy.
 2432. Children's Page.
 2433. Man in Brown.
 2434. The Mother.
- Lundborg, Florence.**
 2435. Etna in the Afterglow.
 2436. Old Fountain: Taormina.
 2437. Stone Pines.
- Lungren, Fernand.**
 2438. In the Abyss: Grand Canyon.
- Lynch, Anna.**
 2439. Portrait of Henrietta E. Countiss.
 2440. Marion Stanton.
- McArthur, Stanley.**
 2441. The Spanish Legend.
- McCarter, Henry.**
 2442. Lust for Gold.
 2443. Yearly Tribute to the King of Tara.
 2444. Return from the Foray: Early Ireland.
- McCull, Mary A.**
 2445. Reflections.
- McComas, Francis.**
 2446. The Broken Oak.
 2447. Oaks of the Monte.
 2448. Wolpi: Arizona.
 2449. Pines at Monterey.
 2450. Lichomovi: Arizona.
 2451. The Red Wagon.
 2452. The Navajo Gateway: Arizona.
 2453. A Los Olivos Oak Tree.
 2454. A City of the Dead.
 2455. Mariano.
- McCormick, Howard.**
 2458. Hopi Ceremonial.
- McCormick, M. Evelyn.**
 2459. Old Custom House: Monterey.
- MacOshesney, Clara T.**
 2460. A Good Story.
 Lent by the National Gallery.
 2461. Still Life.
- MacDougall, John A.**
 2462. Dick.
- MacEwen, Walter.**
 2463. Vanity.
 2464. Waiting.
 2465. In the Studio.
 2466. Yes or No.
 2467. At the Burgomaster's.
 2468. An Interlude.
 2469. The Betrothed.
 2470. Oidebroeck.

- McFee, Henry Lee.**
2471. Still Life.
- MacGilvary, Norwood.**
2472. June in the Forest.
2473. Autumn Idyl.
2474. Nocturne.
2475. The Voices of Dreams.
- McIntire, Katharine.**
2476. Portrait of a Man.
- McKillop, William.**
2477. Portrait of Robert W. Chanler.
2478. The Letter.
- McLane, M. Jean.**
2479. Brother and Sister: Portraits.
Lent by Arthur H. MacKie.
2480. Group: Mother and Children.
2481. Portrait of Mrs. R. G. Arnold.
- McMillen, Mildred.**
2482. Low Tide: Etapes.
- Maccari, Cesare.**
2483. Music Hath Charms.
2484. Fond Memory.
- Macky, Constance.**
2485. Portrait of Mrs. Frederick Roth.
2486. Roses.
- Macky, E. Spencer.**
2487. Portrait.
2488. Mother and Child.
2489. Alice.
- Macrum, George H.**
2490. Woolworth Building from West Street.
2491. The Towering City.
- Macsoud, Nicholas S.**
2492. Portrait of Julius A. Gross, Esq.
2493. Portrait of Miss Theresa Borman.
2494. Portrait of My Mother.
2495. Portrait of a Boy.
- Mager, Gus.**
2496. Flower Bouquet.
2497. The Laborer.
2498. Tulips and Irises.
- Magonigle, Edith M.**
2499. The Queen of Hearts.
2500. The Secret Garden.
2501. Linet de Maris.
2502. Vice and Virtue.
2503. Louis Ayres, Esq.
2504. Gwendolyn Munroe.
- Major, Ernest L.**
2505. Blonds in Blue.
- Makowsky, Alexander.**
2506. Profile.
- Malbone, Edward Greene.**
2507. Portrait of Joseph Marx.
Lent by the Pennsylvania Academy of Fine Arts.
- Manigault, E. Middleton.**
2508. Pastoral.
- Mannheim, Jean.**
2509. On Tuesday.
2510. Frolicking Times.
- Marchant, Edward D.**
2511. Colonel E. D. Baker.
Lent by Dr. Gilbert L. Parker.
- Maris, Matthew.**
2512. Water Color.
- Mark, Louis.**
2513. Preparing for a Walk.
2514. Before the Mirror.
2515. Lady with Parasol.
2516. Breakfast Table.
- Marsh, Alice Randall.**
2517. Michel and Maud Bouvier.
2518. Portrait Sketch of a Russian Girl.
- Marshall, W. E.**
2519. Portrait of A. B. Durand.
Lent by the National Academy of Design.
- Martin, Homer D.**
2520. Saranac Lake.
Lent by the Union League Club, New York City.
2521. Newport Neck.
Lent by the Lotos Club.
- Martinez y Orozco, Xavier T.**
2522. Land of Silence.
2523. The Storm.
- Mason, John.**
2524. On the Road to Killingworth.
2525. Old Cider Mill.
- Mason, Maud M.**
2526. Still Life.
- Mathews, Arthur F.**
2527. The Carnation.
2528. Cypress Grove.
2529. Masque of Pandora.
2529A. The Butterfly.
2530. Oaks.
2531. Monterey Bay.
2532. The Web.
2533. The Swan.
2534. Monterey Hills.
2535. Portrait.
2536. Cypress.
2537. Marine.
2538. Ghost Story.
2539. Eve.
- Mathews, Lucia K.**
2540. Little Girl.
2541. Monterey Pine.
- Maurer, A.**
2542. Bal Bullier.
2543. Jeanne.
- Maury, Cornelia F.**
2544. One Shoe Off.
2545. The Three Bears Story.
- May, Edward Harrison.**
2546. The Dying Brigand.
Lent by the Pennsylvania Academy of Fine Arts.
- Mayer, Louis.**
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2550. Reading.
- Mayr, C.**
2551. Reading the News.
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2554. Rockport.
2555. Rocky Mountain Valley.
2556. Stormy Day.
- Mears, Helen Farnsworth.**
2557. Portrait of My Mother.
- Meissonier, Jean Louis Ernest.**
2558. St. John the Divine.
- Melcher, Bertha Corbett.**
2559. My Daughter Charlotte.
2560. A Mountain Lassic.

- Melchers, Garl.**
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 2567. The Open Door.
 2568. Girl Sewing.
 2569. Lily Pond.
 2570. Madonna of the Fields.
 2571. Young Woman at Toilet.
 2572. Roomful of Color.
 2573. House with Green Gable.
 2574. The Fencing Master.
 2575. Supper at Emmaus.
 2576. Virginia.
 2577. House on Canal.
 2578. Breakfast Table.
 2579. Maternity.
 2580. Writing.
 2581. The White Church.
- Mendenhall, Emma.**
 2582. Street in St. Ives: Cornwall.
 2583. An English Village.
 2584. Mulberry Street Hill.
 2585. Luxembourg Gardens.
- Menzler, Bertha S.**
 2586. Twilight on the Dunes.
- Meryman, Richard S.**
 2587. Portrait.
- Messer, Edmund Clarence.**
 2588. Blue Ridge.
- Metcalf, Willard L.**
 2589. Salmon River: Norway.
 2590. Early Spring Afternoon: Central Park.
 2591. Winter's Festival.
 2592. Blossom Time.
 2593. Trembling Leaves.
 2594. October Afternoon.
 2595. Cherry Blossoms.
- Meyn, George Ludwig.**
 2597. Frau v. Cotta.
- Michel, G.**
 2598. View from Montmartre.
 Lent by I. N. Fleishner, Esq.
- Mielziner, Leo.**
 2599. Mrs. Herbert Baer.
 2600. Mr. Philip Conway Sawyer.
 2601. Character Head.
 2502. Mr. Gustave Pollak.
- Miller, Addison J.**
 2503. Storm Warning.
- Miller, Kenneth Hayes.**
 2604. The Cloud.
 2605. The Swan.
- Miller, Richard E.**
 2606. The Visit.
 2607. Nude.
- Milliet, Jean Francois.**
 2608. Mercure Enlivan les Boeufs d'Argus.
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 2610. Broken Color.
 2611. Dots and Dashes.
 2612. Bronx Snow.
 2613. Tricolor.
 2614. Black and White No. 1.
 2615. Black and White No. 2.
 2616. Interior New York Public Library.
- Mitchell, Arthur.**
 2617. Close of a November Day.
- Mitchell, Eleanor B.**
 2618. Cleaning the Fish.
 2619. Portrait.
 2620. Portrait.
 2621. Study of Lamplight.
- Moeller, Selma M. D.**
 2627. Portrait.
 2628. Annette.
 2629. Miss Stein.
- Molarsky, Morris.**
 2630. Reflections.
- Monet, Claude.**
 2631. Bateux Echoues, Fécamp.
 2632. Meule Coucher de Soleil.
 2633. La Seine à Portvillers.
 2634. Vetheuil.
 2635. Les Nymphaes, Paysage d'Eau.
 2636. Le Havre: Terrasse au Bord de la Mer.
 2637. La Promenade dans les Prairies a Argenteuil.
- Monges, Henry B.**
 2638. Sunset.
- Monticelli, Adolphe.**
 2639. Nymphs Bathing.
 Lent by O. E. S. Wood, Esq.
 2640. Fete Champetre.
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 2641. The White Horse.
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 2642. Blue, Green, Gold.
 2643. Orange Tulips.
- Mooney, Ed.**
 2644. Aphmet Ben Amar.
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 2645. Vacation Time.
 2646. Spanish Fair in the Time of Goya.
 2647. Black, Grey and Rose.
 2648. The Fortune Teller.
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 2649. Brush Burning.
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 2650. Water Bearer: San Juan.
 2651. Pueblo of Zia.
 2652. September Haze.
- Moran, Thomas.**
 2653. A California Forest.
- Morse, Samuel F. B.**
 2654. Wm. Paulding.
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 2655. Portrait of W. O. Bryant.
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 2656. Portrait: Mrs. David Olyphant.
 Lent by Robert M. Olyphant, Esq.
- Moser, James Henry**
 2657. November Sunset: Canaan Mountain.
 2658. Showery Weather: Adirondacks.
 2659. October in Cornwall.
 2660. Pond Hill in October.
 2661. Fog Lifting.
 2662. Overlook Mountain: Catskills.

- Mount, William Sidney.**
 2663. The Painter's Triumph.
 Lent by the Pennsylvania Academy
 of Fine Arts.
 2664. Flowers.
 2665. Portrait of President Van Buren.
- Muller, Peter Paul.**
 2666. Thousand Year Old Oaks.
- Muller, Richard.**
 2667. Leimer's Goat.
- Mundy, Ethel Farnes.**
 2668. Margaret Mundy.
 2669. Sally Cameron.
 2670. Miss Ruth Wales.
 2671. Mr. F. A. Saunders.
- Murphy, Ada Clifford.**
 2672. Sweet Apples.
- Murphy, Caroline Bowles.**
 2673. A Cloud.
 2674. In the Azores.
 2675. Hot Springs.
- Murphy, J. Francis.**
 2676. Frostbitten Wood and Field.
- Murphy, Hermann Dudley.**
 2677. The Sails.
 2678. The Yellow Palace.
 2679. Morro Castle: San Juan.
 2680. The Green Door.
 2681. The Salute.
 2682. Fireworks.
 2683. Wind.
 2684. Venetian Brocade.
 2685. In the Azores.
 2686. Rio San Antonio.
- Murray, Grace H.**
 2687. Portrait of Mme. H. L. W.
 2688. Minature Study.
- Myrick, Katharine.**
 2689. Study.
- Nahl, Perham W.**
 2690. Despair.
- Neagle, John.**
 2691. Junius Brutus Booth.
 Lent by Albert Rosenthal, Esq.
- Nelson, Raymond P. B.**
 2692. A Glass of Wine.
 2693. The Hand of Glass.
 2694. A String of Beads.
- Nell, Tony.**
 2695. Floating Feather.
 2696. Study in Black.
 2697. Paper Ladies.
- Nelson, Bruce.**
 2698. Along the Shore.
 2699. The Summer Sea.
 2700. The Golden Shore.
 2701. Sea and Sky.
- Nettleton, Walter.**
 2702. When Sleeping Winter Dreams of
 Summer Skies.
- Neuhans, Eugen.**
 2703. A Corner of Lake Merced.
 2704. Monterey Dunes.
 2705. Plowing at Ingleside.
 2706. Eucalypti at Berkeley Hills.
 2707. Cliffs at Westport.
 2708. Helvetia Cemetery.
- Newell, Peter.**
 2709. My Daughter.
 2710. Portrait of Miss G.
- Nicholls, Rhoda Holmes.**
 2711. 1860.
- Nichols, Hobart.**
 2712. The Knob: Maine.
- Nisbet, Robert H.**
 2713. The Emerald Robe.
- Noble, T. S.**
 2714. The Polish Exile.
- Nordell, Carl J.**
 2715. The Hostess.
 2716. The Chinese Beads.
 2717. The Listeners.
 2718. The Pink Scarf.
- Norman, Mabel.**
 2719. Maestro Alessandro.
 2720. Maestro Alessandro: Profile.
 2721. Portrait of Mr. Charles H. Hapgood.
 2722. Portrait of Mrs. Helene Anderson.
 2723. Portrait of Dr. George Cerio.
 2724. Matilde.
 2725. Portrait of Mrs. Wm. R. Hunter.
- Northcote, James.**
 2726. Portrait of Himself.
- Nourse, Elisabeth.**
 2727. L'Été.
- Noyes, George L.**
 2728. Spring Morning: Medfield.
 2729. Mount Lafayette.
 2730. Late Autumn.
- Nunn, Frederic.**
 2731. Harbor in Winter.
 2732. Sand and Sea.
 2733. A Seaside Roost.
- Oakley, Thornton.**
 2734. Bullock Cart: Rajputana.
 2735. Fakir.
 2736. The Guard of the Maharajah.
 2737. Rajputana.
 2738. Water Buffalo.
 2739. Shinto Pilgrim.
 2740. Fisherman.
 2741. Faggot Gatherer.
 2742. Peasant Woman.
- Oakley, Violet.**
 2743. The Tragic Muse.
 Lent by Edward H. Coates, Esq.
 2744. The Divine Comedy of Dante.
 Lent by Robert J. Collier, Esq.
- Ochtman, Leonard.**
 2745. The Brook in Spring.
 2746. Winter Morning: Mianus River.
- Olinisky, Ivan G.**
 2747. Two Girls.
- Oliver, Jean Nutting.**
 2748. Master Aldrich.
 2749. The Shade Hat.
- Olson, Albert Byron.**
 2750. Ballet.
 2752. Still Life.
 2753. Decoration: The Three Sisters.
- Olson, Oliver Joseph.**
 2754. The Landscape Class.
- O'Lynch de Lynch Town, Charles.**
 2755. Zugspitz Group from Kranzber, near
 Mittenwald.
- Otis, Amy.**
 2756. Portrait of an Artist.
 2757. A College Girl.
- Otis, Bass.**
 2758. Portrait of Mrs. Cornwall.
 Lent by Thomas C. Corner, Esq.
- Packard, Mabel.**
 2759. Study of a Head.
 2760. Portrait: Miss P.
- Paddock, Ethel Louise.**
 2761. Red Haired Girl.
 2762. Night.
- Paddock, Josephine.**
 2763. The Blue Feather.
 2764. Two Girls.
 2765. Miss M. and a Parrot.
 2766. Youth.
 2767. Black Cap.

- Page, Marie Danforth.**
 2768. Tommy.
 2769. Dressing Genevieve.
 2770. Portrait of Anna Colman Ladd.
- Page, William.**
 2771. Mother and Child.
 Lent by The Pennsylvania Academy of the Fine Arts.
- Pages, Jules.**
 2772. On the Quais: Paris.
- Palmer, Pauline.**
 2773. The Ledge.
- Pancoast, Morris Hall.**
 2774. Afternoon: Tomkinsville.
- Pane, Philip Stuart.**
 2775. Me and Pussy.
- Pape, Eric.**
 2776. The Mexican Dance.
 2777. Edith Wynne Mathison as Hermione.
 2778. Mrs. John Hayes Hammond.
- Paradise, John W.**
 2779. Portrait.
 Lent by Albert Rosenthal, Esq.
- Parker, Lawton.**
 2780. Paresse.
 2781. Portrait of Mrs. Ray Atherton.
 2782. An English Girl.
- Parrish, Clara Weaver.**
 2783. The Worshipper.
- Parrish, Stephen.**
 2784. Winter Sunset: Cape Cod.
- Parshall, De Witt.**
 2785. The Hermit Creek Canyon.
 2786. Great Abyss.
- Partington, Gertrude.**
 2787. Portrait of Mrs. Jack Allan Partington.
- Partington, J. H. E.**
 2788. The Old Bellman.
 Lent by R. L. Partington, Esq.
- Patee, Elsie Dodge.**
 2790. At the Window.
 2790. La Petite Brodeuse.
 2791. The Pink Scarf.
 2792. The Yellow Book.
- Patterson, Margaret.**
 2793. Basque Fishing Boats.
- Patterson, Rebecca Burd Peale.**
 2794. George, Jr.
- Paxson, Martha K. D.**
 2795. Muriel S.
- Paxton, Elizabeth Okie.**
 2796. In the Morning.
- Paxton, William McGregor.**
 2797. Portrait of James Paxton.
 2798. The Housemaid.
 2799. Glow of Gold and Gleam of Pearl.
 2800. Daylight and Lamplight.
 2801. Breakfast.
 2802. Bellissima.
 2803. Woman and Baby.
- Payne, Edgar.**
 2804. Infinitude.
- Peale, Charles Willson.**
 2805. Portrait of Colonel Charles Pettit.
 Lent by Arthur G. Hetherington, Esq.
- Peale, J. S.**
 2806. The Pet.
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- Peale, James.**
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- Pearce, Charles Sprague.**
 2812. The Beheading of John the Baptist.
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- Pearson, Joseph T.**
 2813. Ducks in a Marsh.
 2814. Fox and Geese.
- Peeloue, G.**
 2815. Landscape.
 Lent by Albert Rosenthal, Esq.
- Pennoyer, Sheldon P.**
 2816. Trinket Vendor: Frascati.
 2817. Market Scene: Frascati.
- Pepper, Meta A.**
 2818. Portrait of Young Man.
 2819. Portrait of Christine Peper.
- Perard, Victor S.**
 2820. Brooklyn Bridge.
- Percy, Isabella C.**
 2821. Interior of Mission: San Juan.
- Perrie, Bertha E.**
 2822. An English Garden.
 2823. A Brittany Peasant Girl.
- Perrine, Van.**
 2824. Children of the Wind.
- Perry, Lilla Cabot.**
 2825. My Lamb.
 2826. A Fairy Tale.
 2827. Hildegarde.
 2828. Open Air Concert.
- Peterson, Jane.**
 2829. Low Tide.
 2830. Old Morlaix.
 2831. Rapids Above Niagara.
 2832. Sunlight and Shadow: Venice.
 2833. Old Venice.
- Peyraud, Frank C.**
 2834. October.
 2835. Summer Evening.
- Pfeiffen, Justus.**
 2836. Central Park.
- Phillips, Caroline King.**
 2837. Mrs. W. S. Burgess.
 2838. Miss Carol S. Johnson.
 2839. Graham Newell Fitch.
 2840. Miss Elizabeth Johnson.
 2841. Colonel Graham Denby Fitch.
- Piazzetta, G. B.**
 2842. Portrait of a Girl.
 Lent by Dan Fellows Platt.
2843. Portrait of a Boy.
 Lent by Dan Fellows Platt.
- Piazoni, Gottardo, F. P.**
 2844. The End of the Day.
 2845. Lux Aeterna.
- Pierce, Lucy V.**
 2846. Carmel Landscape.
- Pietsch, Richard.**
 2847. Spring in the Bavarian Foothills.
- Pine, Robert E.**
 2848. Portrait: General Henry Lee.
 Lent by John Frederick Lewis, Esq.

- Pissarro, Camille.**
 2849. The Orchard.
 Lent by Martin A. Ryerson.
 2850. Village aux Environs de Mantes.
 2851. Le Jardin du Presbytere a Knoch.
- Pooke, Marion L.**
 2852. The Wall Flower.
 2853. Silhouettes.
 2854. Donna Italiana.
- Poor, Henry Varum.**
 2855. The Orchardist and His Family.
 2856. Baby's Toilet.
- Poore, Henry E.**
 2857. Twilight on the Moor.
 2858. New England Winter.
- Potthast, Edward Henry**
 2859. Kiddies.
 2860. A July Day.
 2861. In the Surf.
 2862. A Holiday.
 2863. The Seaside.
 2864. Splashing.
 2865. Peace and Quiet.
 2866. A Rift in the Clouds.
 2867. The Illecitwaet Glacier.
- Powell, Arthur J. E.**
 2868. Bronx Kills.
- Powers, Marion.**
 2869. Encore.
 2870. The Bouquet.
 2871. A Tea Party.
- Pratt, Matthew.**
 2872. Portrait of Benjamin West.
 Lent by the Pennsylvania Academy of Fine Arts.
- Preisler, James.**
 2873. Motive of Tale.
- Prendergast, Maurice B.**
 2874. The Sea.
 2875. Canal: Venice.
 2876. The Rocks.
 2877. Salute: Venice.
 2878. Under the Trees.
 2879. The Beach.
- Preston, James.**
 2880. Mamburg: Bavaria.
 2881. Regensburg: Bavaria.
 2882. Landscape.
 2883. Paris. No. 1.
 2884. Paris. No. 2.
 2885. Paris. No. 3.
 2886. Paris. No. 4.
 2887. Cafe: Paris. No. 5.
 2888. Paris. No. 6.
 2889. Paris. No. 7.
 2890. Paris. No. 8.
 2891. Paris. No. 9.
- Preston, May Wilson.**
 2892. Drawing. No. 1.
 2893. Drawing. No. 2.
 2894. Drawing. No. 3.
 2895. Drawing. No. 4.
 2896. Drawing. No. 5.
 2897. Drawing. No. 6.
- Price, Eugene.**
 2898. Autumn.
 2899. Portrait: Mary Angell.
- Purdie, Evelyn.**
 2900. Young Girl in Blue.
 2901. An Old Woman.
 2902. Mrs. Oakey.
 2903. Miss Rice.
 2904. Portrait of Nancy.
- Purefoy, Heslope.**
 2905. Jeanette.
 2906. Portrait Study.
 2907. Miss Clark.
- Puthuff, Hanson.**
 2908. Home of the Ranger.
 2909. Gray Day in Summer.
- Futz, Leo.**
 2910. The Shore.
- Fuvis de Chavannes, Pierre.**
 2911. A Vision of Antiquity: Symbol of Form.
 Lent by the Carnegie Institute.
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 2912. A Breezy Day off Canonicut.
 Lent by Mrs. Grace Hall Jewett.
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- Raditz, Lazar.**
 2914. Self: Portrait.
- Raeburn, Sir Henry.**
 2915. John Wauchope.
 Lent by Albert Rosenthal, Esq.
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 2916. Hon. Mary Lillian Scott.
- Ramsey, Charles F.**
 2917. A Garden.
- Rand, Ellen Emmet.**
 2918. Professor William James.
 2919. Grenville.
 2920. Madam M. P. T.
 2921. In the Studio.
 2922. Singing.
- Randolph, Lee.**
 2923. White Cosmos.
 2924. Avignon: France.
 2925. Winter: Northern France.
 2926. The Grape Vine.
- Raphael, Joseph.**
 2927. In Holland.
 2928. Spring Winds.
 2929. Belgian Farm.
 2930. Environs of Brussels.
 2931. Tulip Fields.
 2932. Market Day on the Canal.
- Ravlin, Grace.**
 2933. Gate of the Grand Soko: Tangiers.
 2934. To the Cemetery: Venice.
 2935. Grande Marche du Grande Soko: Tangiers.
 2936. Soir au Marche: Tangiers.
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 Lent by the Cincinnati Museum Association.
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 2940. On the River Banks.
 2941. The Quarry Road.
 2942. A Village in France.
 2943. Cedar Hill.
 2944. The Hills and River.
 2945. Garden by the River.
 2946. In the Clearing.
 2947. Overlooking the Valley.
 2948. The Briar Patch.
 2949. The Green Sleigh.
 2950. In the Woods.
 2951. The Woodland Brook.
 2952. The Road in Summer.
 2953. Rhododendrons.
 2954. In the Garden.
 2955. The Coast of France.
 2956. The English Channel.
 2957. Autumn.
 2958. In the Village.
 2959. On the Delaware River.
 2960. In New York Harbor.

2961. Between Daylight and Darkness:
New York City.
2962. Equihen: France.
- Redfield, H loise Guillou.**
2963. Mrs. A. Lesley.
2964. Mr. Martin Mawer.
2965. Miss A.
2966. Lady with Furs.
2967. Robert S. Redfield.
2968. Mme. Alcide Berthier.
2969. Portrait of a Child.
- Redmond, Granville.**
2970. Solitude.
2971. Lifting Fog.
- Rehn, Frank K. M.**
2972. Where the Waves Sweep.
- Reid, Jean Arnot.**
2973. Portrait of Lloyd Williams, Esq.
2974. Cecelia.
2975. Belle of 1861.
- Reid, Robert.**
2976. The Japanese Screen.
Lent by Spencer Kellogg, Esq.
2977. The Gold Fish.
2978. Autumn.
- Reifel, Charles.**
2979. Silvermine Valley.
- Remington, Frederic.**
2980. Apache Fire-Signal
Lent by Henry Smith, Esq.
2981. The Love Call.
Lent by William A. Paine, Esq.
- Reni, Guido.**
2982. St. Sebastian.
Lent by William Berg, Esq.
2983. Mary Magdalene.
- Renoir, Pierre Auguste.**
2984. Promenade au Bord de la Mer.
2985. Fleurs et Fruits.
2986. Deux Femmes Assises.
2987. Dans le Jardin.
- Reynolds, Sir Joshua.**
2992. Lady Blessington.
Lent by C. E. S. Wood, Esq.
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ter.
Lent by Mrs. Reginald Smith.
- Ribera, Juseppe de, Called Spagnoletto.**
2994. St. Jerome.
Lent by Albert Rosenthal, Esq.
2995. St. Jerome's Last Prayer.
Lent by Dr. Gilbert L. Parker.
- Rich, John Hubbard.**
2996. The Blue Kimona.
- Richards, Lee Greene.**
2997. A Man in a Cloak.
- Richards, William T.**
2998. Old Ocean's Grey and Melancholy
Wave.
Lent by Edward H. Coates, Esq.
2999. Marine.
Lent by F. Tillmann, Esq.
- Richardson, Mary Curtis.**
3000. The Young Mother.
3001. The Sleeping Child.
3002. Portrait of Professor Paget.
3003. Undine.
- Richmond, Agnes M.**
3004. Mending.
- Rimmer, William.**
3005. Angel in the Garden.
Lent by Miss Caroline Hunt
Rimmer.
3006. At the Window.
Lent by Miss Caroline Hunt
Rimmer.
- Ring, Alice Blair.**
3007. Miniature No. 1.
3008. Miniature No. 2.
3009. Miniature No. 3.
- Ritschel, William.**
3010. The Tide Pool: Carmel.
3011. Summer Night: Point Lobos.
3012. Fog and Breakers: Carmel.
3013. Blue Depths: Carmel.
3014. In the Shadow of the Cliffs:
Monterey.
- Rittenberg, Henry E.**
3015. Still Life.
- Rittman, L.**
3016. Early Morning.
3017. Breakfast.
- Roberts, Alice Mumford.**
3018. The Laughing Girl.
3019. Red Peppers.
3020. Two Vaudeville Stars.
- Robinson, Alexander.**
3021. Market: Tetuan: Morocco.
3022. Arab Girls.
3023. Arrival of the Feluccas: Spanish
Coast.
3024. Tangier.
3025. Hadi Ben Hassan of Bagdad.
3026. Damascus Tale: The Incredulous
Muleteer.
3027. The Daughter of the Khalif: De-
sign in Red and Gold.
3028. Persian Romance: The Mockers.
- Robinson, Boardman.**
3029. Louvain.
3030. Disease in the Wake of War:
Balkans, '12.
3031. Viva What's His Name: Mexico,
'12.
3032. T. R. in Old Madrid.
- Robinson, Theodore.**
3033. Day Dreams.
Lent by the Carnegie Institute.
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lery, Smith College.
3035. Port Ben.
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emy of Fine Arts.
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3039. On the Canal.
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3040. Grey Morning.
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- Robinson, Thomas.**
3042. Bull's Head.
3043. Laurel Blossoms.
3044. Group of White Birches.
3045. June Idyl.
- Roecker, Henry Leon.**
3046. Calves Resting.
- Rogers, Franklin W.**
3047. The Siesta.
- Rogers, Gretchen W.**
3048. Still Life.
3049. Fur Hat.
3050. Girl with a Book.
3051. Young Girl.
- Rogers, Mary.**
3052. Anna.
3053. The Red Hair.

- Bolshoven, Julius.**
3054. The Refectory of San Damiano: Assisi.
Lent by the Detroit Museum of Art.
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3056. Portrait of Mr. Milles.
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3057. Portrait.
- Book, Edward F.**
3058. Dish of Fruit.
3059. Laurel.
3060. Snow, Ice and Foam.
- Rose, Guy.**
3061. The Backwater.
3062. November Twilight.
- Rosen, Charles.**
3063. Winter Morning: Maine Coast.
3064. The Delaware: Winter Morning.
3065. Floating Ice: Early Morning.
- Rosenthal, Albert.**
3066. Dr. T. Cheston Morris.
Lent by Dr. T. Cheston Morris.
3067. The Millinery.
3068. Helene.
3069. Mrs. Albert Rosenthal.
3070. Alberta Uhle-Smith.
- Both, Ernest D.**
3071. A Winter Landscape.
- Rothermel, Peter Frederick.**
3072. Bacchanal.
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Lent by Mrs. William H. Fox.
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3075. Sleeping Cupid.
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- Rousseau, Theodore.**
3077. Landscape.
3078. Crepuscule.
- Rungius, Carl.**
3079. Canadian Rockies.
3080. On Wilcox Pass.
- Ryder, Albert.**
3081. Jonah.
Lent by C. E. S. Wood, Esq.
3082. Return of the Boats.
- Ryder, Chauncey F.**
3083. The Ox Team.
- Sacks, Joseph.**
3084. In Street Costume.
- Saint Gaudens, Carlota.**
3085. Study in Red.
3086. Portrait: Mary Shipman.
- St. Memin, Févret de.**
3087. Drawing.
Lent by Albert Rosenthal, Esq.
- Sander, Mathias.**
3088. The Pueblo of Wolpi.
- Sandona, Matteo.**
3089. Studies of Miss H. M. Sullivan.
3090. Portrait of Mrs. Leo Lentelli.
- Sandzen, Sven Birger.**
3091. The Granite Cathedral.
- Sargeant, Geneve Rixford.**
3092. Floating Clouds.
- Sargent, John Singer.**
3093. Hon. John Hay.
Lent by Clarence Hay, Esq.
3094. Spanish Courtyard.
Lent by Louis B. McCagg, Esq.
3095. Spanish Gypsy.
Lent by Louis B. McCagg, Esq.
3096. Madame Gautrin.
3097. Nude.
3098. Henry James.
3099. Rose.
3100. Jo Jefferson.
3101. Reconnoitring.
3102. Goats.
3103. Stable.
- Sartain, William.**
3118. Jersey Sand Dunes.
3119. Along the Stream.
3120. Along the Loing.
- Sauter, G.**
3121. Resurrection.
3122. Spring Veil.
3123. The Avenue.
3124. Spring: A Little Violet.
3125. Sphinx.
3126. Great Friend.
3127. Valley.
3128. Clouds.
3129. Weishorn.
3130. Rothorn.
3131. Dent Blanche.
3132. Rimpfischorn.
- Sawyer, Edith.**
3133. Miss Katherine Ecob.
3134. Mrs. Andrew Sawyer.
3135. Freddy.
- Sawyer, Myra L.**
3136. In a White Cap.
3137. Portrait of an Old Man.
- Saxton, John Gordon.**
3138. Midwinter.
- Schanze, Oscar.**
3139. Portrait of Woman in Black.
- Schille, Alice.**
3140. The Other Side of the Circus Wagon.
3141. Saturday Morning.
3142. St. Germain-des-Prés.
3142. The Pig Market.
3144. The Passing Years.
3145. The Gardener's Cottage.
- Schmauss, Peter.**
3146. Easter.
- Schmidt, Karl.**
3147. The Great Pacific.
- Schmitt, Albert Felix.**
3148. In Wonderland.
3149. Peddlers at Gibraltar.
3150. Blue and Gold.
3151. On the River Bank.
- Schofield, W. Elmer.**
3152. Waterfall.
3153. The Hilltop.
- Schoonover, Frank E.**
3154. The Trail of the North.
3155. The Fur Brigade.
- Schook, F. de Forest.**
3156. Sunshine and Shadow.
- Schreyer, Adolph.**
3157. A Moorish Chieftain.
Lent by Henry Smith, Esq.
- Schnitheim, Karl Max.**
3158. In March.
- Schussele, Christian.**
3159. Dr. Benjamin Franklin Before the Privy Council in London, January 29, 1773.
Lent by Joseph T. Kinsley, Esq.

- Schuster, Donna.**
3160. Construction Work Beneath the Tower of Jewels.
3161. Concert in the Court of the Four Seasons.
3162. Construction Work to the South of the Tower of Jewels.
- Schwartz, Andrew Thomas.**
3163. In Vermont.
31.64. Destiny, Hope: and Despair.
3165. Ice Floe.
- Searle, Alice T.**
3166. Leslie Hall.
- Sears, Sarah Choate.**
3167. Hibiscus: Bermuda.
3168. Pigeon Berries: Bermuda.
3169. Morning Glories: Bermuda.
- Sears, Taber.**
3170. The Arab Merchant.
3171. Harbor of St. George.
3172. Bridge of the Canonica: Venice.
3173. York Cathedral.
- Seawell, Harry W.**
3174. Interior.
- Segna di Bonaventura.**
3175. Madonna.
Lent by Dan Fellows Platt, Esq.
- Selden, Dixie.**
3176. Bunker's Hill, St. Ives.
- Selden, Henry Bill.**
3177. October Morning.
3178. Cloudy Morning.
- Seyffert, Leopold.**
3179. Juan.
3180. Julian.
3181. Spanish Peasants.
3182. Tired Out.
- Sharp, Joseph Henry.**
3183. Crucita: Taos Indian Girl.
- Sharples, John.**
3184. Portrait.
Lent by Albert Rosenthal, Esq.
- Shaw, Sydney Dale.**
3185. Woodland Fete.
3186. Southwestern Summer.
3187. Nature's Screen.
- Shepard, Clare.**
3188. The Pale Flower.
3189. Bertha.
3190. Miss Fiske.
3191. Mary.
3192. Kathleen.
3193. The Golden Girl.
3194. Daphne.
3195. Suzanne.
3196. Howard.
3197. Mrs. C.
3198. David.
3199. J. B.
3200. Betrothed of the Raven.
- Shinn, Everett.**
3201. Going to the Fire.
3202. Stage.
3203. The Shop Window.
3204. The Yellow Dancer.
3205. The Funny Man.
3206. Waiting.
3207. 18th Century. (Red Chalk.)
3208. Red Chalk. No. 1.
3209. Red Chalk. No. 2.
- Shirlaw, Walter.**
3210. Toning of the Bell.
Lent by Mark S. Willing, Esq.
- Shore, Henrietta M.**
3211. Sisters.
- Shuttleworth, Claire.**
3212. A Small Boy.
- Siboni, Emma B.**
3213. Little Miss Mary Armes.
- Simons, Marcus.**
3214. The Classic Land.
- Simpson, Edna Huestia.**
3215. Miss Mortimer Anstice.
3216. Outdoor Sketch.
3217. The Green Gown.
3218. The Pool.
3219. Mrs. Frank Laurence Stiles.
- Singer, W. H.**
3220. In My Garden.
- Sisley, Alfred.**
3221. Landscape.
Lent by Martin A. Ryerson,
3222. Une Avenue de Peupliers, Moret.
3223. St. Mammés.
- Sloan, John.**
3224. Gloucester Harbor.
3225. Renganeschis: Sunday iNght.
3226. McSorley's Old Ale-House.
3227. Woman on Roof.
3228. Return from Toil.
3229. Girl Undressing.
3230. At the Top of the Swing.
- Smillie, George H.**
3231. In the Berkshires.
Lent by the Lotus Club.
- Smith, Charles L. A.**
3232. The Returning Light.
- Smith, Howard Everett.**
3233. Portrait of a Venetian Girl.
3234. The Convalescent.
- Smith, Jessie Wilcox.**
3235. Snow White and the Seven Dwarfs.
3236. Jack and the Bean Stalk.
3237. Cinderella.
3238. Babes in the Wood.
3239. Little Red Riding Hood.
- Smith, May Mott.**
3240. Portrait of a Woman.
3241. Miniature.
3242. Sea Foam.
- Smith, Rosamond L.**
3243. Cinderella.
3244. Heirlooms.
- Snead, Louise Willis.**
3245. Young Violinist.
3246. Portrait.
3247. Portrait of Miss Snead.
- Snell, Florence F.**
3248. A Gate of Rothenburg.
3249. Cottages on the Cliff: Polpéro.
3250. Roadside: St. Jean du Doigt.
3251. Street in Rothenburg.
- Snell, Henry B.**
3252. Low Tide.
3253. The Cargo Boat.
3254. Twilight at Sea.
3255. The Passing Steamer.
3256. Still Life.
3257. The Quay: Paris.
3258. The Cove.
3259. The Devon Coast.
3260. The Lighthouse by Moonlight.
- Sohier, Alice Euggles.**
3261. Giovanna.
3262. Reminiscence.
- Sotter, George W.**
3263. Valley in Snow.
3264. Moonlight: Gloucester Harbor.
3265. Snow-bound Hills: Pittsburg.
3266. In Gloucester Harbor.

- Souder, Mary E.**
3267. Portrait of a Girl.
3268. Portrait of a Girl.
- Spaeth, Mary Haughton.**
3269. Penelope Roberts.
- Spanish School.**
3270. Portrait of a Man.
Lent by Martin A. Ryerson,
Esq.
- Sparks, Arthur W.**
3271. Midsummer Day.
3272. Mills at Rankin.
- Spear, Arthur P.**
3273. Spring in the City.
- Speicher, Eugene E.**
3274. Portrait of John Nelson Cole, Jr.
3275. In the Catskills.
- Spencer, Mary.**
3276. Peonies.
- Spencer, Robert.**
3277. The Grey Mills.
3278. Courtyard at Dusk.
3279. The Closing Hour.
- Sprinchorn, Carl.**
3280. Beach at Laguna.
3281. Dancer.
3282. Dancers.
3283. Man with Dagger.
3284. Masquerade.
3285. Woman with Fan.
3286. Young Woman.
3287. Youth.
3288. Drawing.
3289. Drawing.
3290. Sea God.
- Springer, Eva.**
3291. La Vieille.
3292. Italian Girl.
3293. Little Simone.
- Stacey, Anna Lee.**
3294. In Furs.
3295. Moonlight: Granada.
- Stacey, John F.**
3296. Midsummer: Gloucester.
3297. Morning in August.
- Staigg, Richard Morrell.**
3298. Portrait of Daniel Webster.
Lent by the Pennsylvania Acad-
emy of Fine Arts.
- Stanton, Lucy M.**
3299. Mrs. Hunnicutt.
3300. An Old Woman.
3301. Mr. Joel Chandler Harris.
3302. A Scheme in Blue and White.
- Stark, Otto.**
3303. The Gravel Screen.
3304. Building Operations.
- Steele, Theodore C.**
3305. The Poplars.
3306. November Afternoon.
3307. The Hill Country.
- Steele, Zelma.**
3309. Nature's Tapestry.
- Steen, Jan Haidrcks.**
3309. The Drunken Woman.
Lent by August Berg, Esq.
- Stetson, Charles Walter.**
3310. A Peace of Peace.
3311. Smugglers.
3312. Harmony.
3313. In Praise of Dionysos.
3314. Portrait of Grace Ellery Channing-
Stetson.
3315. October.
3316. Bather.
3317. Summer Joy.
3318. Moonrise Behind Cypresses.
3319. The Love Song.
3320. A Dance at the End of the Day.
3321. Girls Under a Tree.
3322. A Stream in Maremma.
3323. Landscape.
3324. Knights on Horseback.
3325. Near the Edge of the Ancient Burial
Ground.
- Stewart, Jules.**
3326. Wood Nymphs.
3327. Blue Butterfly.
3328. Venice.
- Stoddard, Alice Kent.**
3329. The Sisters.
3330. The White Waist.
3331. Portrait of Gerald Stanley Lee.
- Stokes, Frank Wilbert.**
3332. Aurora Borealis: Sea ice Foreground.
3333. Antarctic Afterglow: Admiralty Sound.
3334. Aurora Australis: Antarctic Berge.
3335. Antarctic Glacier: Admiralty Sound.
3336. Belgica Channel.
3337. Gate of Hades: Sunset Effect: Green-
land.
- Storrs, J.**
3338. Portrait.
3339. Marble Head.
3340. Wooden Shoe.
- Story, Julian.**
3341. Portrait of the Artist.
3342. Portrait of Mrs. Story.
- Strean, Maria Judson.**
3342. Portrait.
3344. Girl in Gray Coat.
3345. Boy in Pierrot Costume.
3346. Mrs. W. B. McKennan.
3347. Portrait of Miss Alexander.
3348. Dorothy.
3349. William.
- Strozzi.**
3350. Portrait of a Woman.
Lent by Dan Fellows Platt.
- Stuart, Gilbert.**
3351. Portrait of President Monroe.
Lent by Hon. Seth Low.
3352. Captain Joseph Anthony.
Lent by Dr. J. Cheston Morris.
3353. Portrait of William Williamson.
Lent by Mrs. Gustav Radeke.
3354. Portrait.
Lent by Albert Rosenthal, Esq.
3355. Portrait of Major General Henry
Dearborn.
- Stuck, Franz von.**
3356. Summer Night.
- Sully, Robert Matthew.**
3357. Junius Brutus Booth.
Lent by Albert Rosenthal, Esq.
- Sully, Thomas.**
3358. Portrait of Francis Anne Kemble.
Lent by the Pennsylvania Academy
of the Fine Arts.
3359. Study of a Head.
Lent by the Estate of Samuel
Bell Waugh.
- Sutter, H. E.**
3360. Street Scene: Povincetown.
- Suydam, J. A.**
3361. In the Meadows.
- Tadama, F.**
3362. Public Market: Seattle.
- Talcott, Allen B.**
3363. April at Chipmunk Point.
3364. The Ledges.
- Tanaka, Yasushi.**
3365. The Shadow of the Madrona.

- Tannahill, Mary H.**
 3366. Jane Chapman.
 3367. Brothers.
 3368. Girl with Parrot.
 3369. A Young Mother.
- Tanner, Henry O.**
 3370. Christ at the Home of Lazarus.
- Tapley, J. J. Wooding.**
 3371. November.
- Tarbell, Edmund C.**
 3372. Girl in White.
 Lent by the Cincinnati Museum Association.
 3373. Girl Reading.
 Lent by the Cincinnati Museum Association.
 3374. The Turquoise Ring.
 Lent by the Art Club of Philadelphia.
 3375. The Mirror.
 Lent by the Queen City Club.
 3376. Interior.
 Lent by Dr. George Woodward.
 3377. Girls Reading.
 Lent by Mrs. Daniel Merriman.
 3378. Portrait: Hon. John W. Hammond.
 Lent by the Hon. John W. Hammond.
 3379. The Golden Screen.
 3380. My Family.
- Taylor, Charles J.**
 3395. Mills at Swissvale.
 3396. Coming from Work.
 3397. Pittsburgh from the Golf Club.
 3398. Monongehela from Soho Hill.
 3399. Rankin Mills.
 3400. The Blowout: Soho.
 3401. Sandy Creek.
 3402. Sandy Creek Bridge.
 3403. Springtime in the Suburbs.
 3404. Boothbay Harbor.
- Taylor, Emily Drayton.**
 3405. Mrs. Allison.
 3406. Mrs. John Innis Kane.
 3407. Lifes' Bubbles.
 3408. Spring.
 3409. Miss Corine B. Freeman.
 3410. Mrs. Paul Mills.
- Taylor, Frank Walter.**
 3411. The Villas: Trouville.
 3412. The Beach: Brighton.
 3413. The Pool: London.
 3414. At the Races: Deauville.
 3415. Fete de Nuit.
 3416. Souvenir de Versailles.
 3417. The Cargo: London.
 3418. Illustration: The Iron Woman.
 3419. Illustration: The Iron Woman.
- Taylor, Minnie C.**
 3420. Portrait.
 3421. Robie.
- Teniers, David.**
 3422. Kitchen Scene.
 Lent by Charles M. Cooke, Esq.
- Ter Hell, Willy.**
 3423. Inland Sea.
- Thaulow, Frits.**
 3424. Shenango River near Hamburg.
- Thedy, Max.**
 3425. Dutch Girl.
- Thomas, Seymour.**
 3426. Portrait of Dr. W. A. Briggs.
- Thompson, George Albert.**
 3427. February Morning.
- Thompson, Leslie P.**
 3428. Girl with Mirror.
 3429. Girl in White.
- Thor, Walter.**
 3430. Young Girl.
- Thorndyke, C.**
 3431. Eglise de Cargesse Corse.
- Tiepolo, Giovanni Battista.**
 3432. St. Dominic and the Saint.
 Lent by Martin A. Ryerson, Esq.
- Tingley, Blanche.**
 3433. Josephine Summer.
- Tintoretto, Jacopo.**
 3434. Head: Venetian Senator.
 Lent by Oliver Dennet Grover, Esq.
- Tissot, James Jacques Joseph.**
 3435. The Reception.
- Titcomb, M. Bradish.**
 3436. Summer Girl.
 3437. The Distant City.
 3438. Hillside and Harbor.
- Tompkins, Frank H.**
 3439. Self Portrait.
- Troccoli, Giovanni Battista.**
 3440. Portrait of Mr. Ferry.
 3441. New England Woman.
 3442. Portrait of Mrs. Brinckerhoff.
 3443. Woman with a Handkerchief.
- Trott, Benjamin.**
 3444. Portrait of Solomon Etting.
 Lent by the Pennsylvania Academy of the Fine Arts.
- Tryon, Dwight W.**
 3445. Evening in May.
 Lent by the Buffalo Fine Arts Gallery.
 3446. Moonlight.
 Lent by Charles L. Freer, Esq.
 3447. Early Night.
 Lent by Charles L. Freer, Esq.
 3448. The Sea: Freshening Breeze.
 Lent by Charles L. Freer, Esq.
 3449. The Sea: East Wind.
 Lent by Charles L. Freer, Esq.
 3450. Evening: September.
 Lent by Charles L. Freer, Esq.
 3451. Autumn Morning.
 Lent by Charles L. Freer, Esq.
 3452. Sunlight: Autumn.
 Lent by Charles L. Freer, Esq.
 3453. The Farm: Moonlight.
 3454. Moonlight on the Water.
 3455. Afternoon: October.
 3456. Autumn.
 3457. Night: The Sea.
 3458. Sunset before Storm.
- Tucker, Allen.**
 3459. The Ice Storm.
 3460. Portrait in Blue and Ivory.
- Turner, Helen M.**
 3461. Portrait.
 3462. Mother and Child.
 3463. Portrait of Miss Sherwood.
 3464. Mr. Frank Regal.
- Turner, Joseph Mallord William.**
 3465. Sunset: Venice.
 Lent by Dr. Gilbert L. Parker.
- Turner, Ross Sterling.**
 3466. The Rover.
 3467. Le Soliel Royal.
- Tuttle, Adrianna.**
 3468. Mrs. Charles Shearman Coxé.
 3469. William Somerset Maugham.
 3470. Portrait.
- Tuttle, Euel Crompton.**
 3471. The Fountain: Windsor.

- Twachtman, John H.**
 3472. Meadow Flowers.
 Lent by the Brooklyn Museum.
 3473. River in Winter.
 Lent by the Carnegie Institute.
 3474. Windmills.
 Lent by the Hillyer Art Gallery: Smith College.
 3475. View on the Brette: Béthune: Pas-de-Calais.
 Lent by the Hillyer Art Gallery: Smith College.
 3476. Flowers.
 Lent by Edward H. Coates.
 3477. The Back Road.
 Lent by Childe Hassam, Esq.
 3478. Niagara.
 Lent by W. J. Johnson, Esq.
 3479. October.
 Lent by Charles A. Platt, Esq.
 3480. Waterfall: Yosemite.
 Lent by Mrs. Gustav Radeke.
 3481. The Azaleas.
 Lent by Henry Smith, Esq.
 3482. Waterfall.
 Lent by Henry Smith, Esq.
 3483. Marine.
 Lent by Henry Fitch Taylor.
 3484. Flowers.
 Lent by J. Alden Weir, Esq.
 3485. Sketch.
 Lent by C. E. S. Wood, Esq.
 3486. Summer.
 3487. Hill at Arc-la-Bataille.
 3488. Greenwich Hills.
 3489. On the Upper Terrace.
 3490. Sailing.
 3491. Frozen Stream.
 3492. Bridge in Spring.
 3493. Harbor View Hotel.
 3494. Phlox.
 3495. Niagara.
 3496. Mother and Child.
 3497. Brush House: Cos Cob.
- Tyler, Carolyn D.**
 3498. Master Robert Gibson.
 3499. Jeannette.
- Tyng, Margaret Fuller.**
 3500. The Silver Bowl.
- Tyson, Carroll S., Jr.**
 3501. Before Moonrise.
 3502. Road to the Pier.
 3503. A Midsummer's Day.
- Ufer, Walter.**
 3504. A Daughter of San Juan Pueblo.
 3505. Rosa Cota of San Juan Pueblo.
 3506. Taos Indian in Cornfield.
- Umbraetter, Nelly Littlehale.**
 3507. The Woods.
 3508. An Opal Day.
 3509. Takesago.
 3510. The White Birch.
 3511. The Golden Pine.
 3512. Old Thorn Trees.
- Valk, Ella Snowden.**
 3513. Dawn.
 3514. Miss Frances Cocke.
- Van Boskerck, Robert W.**
 3515. The Valley at Delhi: New York.
 3516. Gill Brook: Adirondacks.
- Van Dyke, Anthony.**
 3517. Countess of Southampton.
 Lent by Albert Rosenthal, Esq.
- Van Gogh, Vincent.**
 3518. Moulin de la Galette.
- Van Leer, Alexander T.**
 3519. November Afternoon.
 3520. The Old Mill.
- Van Marcke, Emile.**
 3521. A Normandy Cow.
 Lent by the Buffalo Fine Arts Academy.
 3522. Tavern Scene.
 Lent by William Berg, Esq.
- Van Sloun, Frank J.**
 3523. Portrait of an Actor.
- Velasquez, Diego Rodriguez de Silva y.**
 (Attributed to)
 3524. Portrait.
 Lent by Frank Duveneck, Esq.
- Vinton, Frederic Porter.**
 3525. Hon. Moorfield Storey.
 3526. Portrait: Mrs. Vinton.
- Vita, Timoteo.**
 3527. Madonna.
 Lent by Dan Fellows Platt.
- Vivian, Calthea.**
 3528. Moonlight: St. Francis Sutter Park.
- Vogt, Louis C.**
 3529. Morning: Cairo.
 3530. An Old Street: Cairo.
 3531. A Market Place on the Nile.
 3532. Busy Street: Cairo.
 3533. Late Afternoon: Cairo.
- Volk, Douglas.**
 3534. Maid of the Manor.
 3535. Marlon of Hewnooks.
 3536. Mother and Child.
- Volkerling, Hermann.**
 3537. Portrait.
- Volkert, E. C.**
 3538. Winter Evening: Connecticut.
- Volkermann, Hans von.**
 3539. Harvest.
- Vonnoh, Robert W.**
 3540. Poppies.
 3541. Charles Francis Adams, Esq.
 3542. Fantasy: Blue and Yellow.
 3543. Portrait: Daniel Chester French.
 3544. Bridge at Grez.
- Wagner, Frank Hugh.**
 3545. Mary Alice.
 3546. Portrait of Mr. G.
- Wagner, Fred.**
 3547. The Village: Winter.
 3548. Brooklyn Bridge.
 3549. Across the Schuylkill.
 3550. Valley of Snow.
 3551. The Two Bridges.
 3552. The Yellow Bridge.
 3553. Shoveling Snow.
 3554. Winter Evening.
- Wagner, Robert.**
 3555. Portrait of Stewart Edward White.
- Waite, Emily Burling.**
 3556. Tjmentje Pouring Water.
 3557. A Morning in September.
 3558. The Lavender Gown.
 3559. Tjmentje Cleaning Brass.
- Walcott, Harry Mills.**
 3560. The Children's Cotillion.
- Walden, Lionel.**
 3561. Scene on the Brittany Coast.
 3562. Avant la Peche.
- Walker, Horatio.**
 3563. Sheep Shearing.
 Lent by the Buffalo Fine Arts Academy.
 3564. Ploughing in Acadia.
 3565. Man Sawing Wood.
 3566. Boy Feeding Calves.

- Waltman, Harry Franklin.**
 3567. The Blue Fountain.
 3568. Vermont.
- Waring, Lella.**
 3569. Mrs. T. Malbone Waring.
- Warner, Everett L.**
 3570. Brooklyn Bridge.
- Warren, Harold B.**
 3571. Autumn.
 3572. The Matterhorn.
- Washington, Elizabeth F.**
 3573. The First Parasol.
 3574. Abdul Baha.
 3575. Nancy.
- Waterbury, Laura Prather.**
 3576. General W. R. Shafter.
 3577. Portrait of Miss Nina Clay.
- Watrous, Harry Willson.**
 3578. The Bursting Bubble.
 3579. He Stood in the Moonlight.
- Watteau, Antoine.**
 3580. The Competitors.
- Waugh, Frederick J.**
 3581. The Southern Gulf Stream.
 3582. The Maine Coast.
 3583. Coming of the Line Storm.
- Waugh, Samuel Bell.**
 3584. Portrait of Thorwaldson.
- Weber, Sarah S. Stilwell.**
 3585. Water Baby.
- Webster E. Ambrose.**
 3586. In the Woods.
 3587. On the Trail.
- Webster, Ethel Felder.**
 3588. Edith.
 3589. Susan Kingsley Crawford.
 3590. Grandfather.
 3591. Louise.
- Webster, H.**
 3592. Rio Ogni Santi: Venice.
 3593. Ponte alle Grazie: Florence.
 3594. On the Arno: Florence.
 3595. Ponte Santi Trinita.
 3596. Ponte Vecchio: Florence.
- Weill, Edmond.**
 3597. October Haze.
- Weir, J. Alden.**
 3598. Midsummer.
 3599. White Oak.
 3600. In the Woods.
 3601. Danbury Hills.
 3602. Portrait.
 3603. June.
 3604. A New England Rye Field.
 3605. Old Norwich Town: Connecticut.
 3606. Towards Queenburgh Bridge:
 Nocturne.
 3607. Plaza: Nocturne.
- Weir, John Ferguson.**
 3608. Forging the Shaft.
 Lent by the Metropolitan Museum.
- Weiss, Samuel A.**
 3609. Sunshine.
- Welch, Katharine G.**
 3610. Profile.
- Welch, Mabel E.**
 3611. Miss Barler.
 3612. Miss Fisher.
 3613. Clorinda.
- Wells, Alice Bushmore.**
 3614. Miss Natalie Peck.
 3615. Portrait.
- Wendel, Theodore.**
 3616. October Haze.
 3617. Ipswich Marsh.
 3618. Hillside Autumn.
- Wendt, William.**
 3619. The Land of Heart's Desire.
 3620. Tahoma, the Eternal.
- Wenk, Albert.**
 3621. Stormy Sea.
- Wents, Henry.**
 3622. November: Five P. M.
- Werner, Frank A.**
 3623. Tessie.
- Wertmuller.**
 3624. Portrait of Mrs. Hamilton.
 Lent by John Frederick Lewis.
 3625. Portrait of Mr. Hamilton.
 Lent by John Frederick Lewis.
- Wessel, Herman H.**
 3626. The Harbor: Ile aux Moines.
- West, Benjamin.**
 3627. Mary Magdalene Anointing the Feet
 of Christ.
 Lent by the Art Institute of
 Chicago.
 3628. Portrait of Miss Peel.
- Wetherill, E. K. K.**
 3629. The Dreamer.
 3630. Mysterious Thoughts.
- Wheeler, Janet.**
 3631. In Memoriam.
- Whistler, James McNeill.**
 3632. Study in Rose and Brown.
 Lent by the Hackley Art Gallery,
 Muskegon.
 3633. Portrait: Mrs. Huth.
 Lent by E. Huth, Esq.
 3634. The Daughter of the Concierge.
 Lent by Mrs. William A. Noyes.
 3635. The Falling Rocket.
 Lent by Samuel Untermyer, Esq.
 3636. Nude Figure.
 Lent by J. Alden Weir, Esq.
 3637. Blue and Gold: The Rose Asales.
 Lent by Charles L. Freer, Esq.
 3638. White Symphony: Three Girls.
 Lent by Charles L. Freer, Esq.
 3639. Green and Silver Beaulieu Terrace.
 Lent by Charles L. Freer, Esq.
 3640. Venus.
 Lent by Charles L. Freer, Esq.
 3641. Variation in Blue and Green.
 Lent by Charles L. Freer, Esq.
 3642. Symphony in White and Red.
 Lent by Charles L. Freer, Esq.
 3643. Symphony in Blue and Pink.
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 3644. Venus Rising from the Sea.
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 3645. The White House.
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 3646. Petite Mephiste.
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 3647. The Sad Sea: Dieppe.
 Lent by Charles L. Freer, Esq.
 3648. Gray and Silver: The Life Boat.
 Lent by Charles L. Freer, Esq.
 3649. Portrait of Mrs. Whibley.
 Lent by Charles Freer, Esq.
 3650. Gray and Silver: The Mersey.
 Lent by Charles L. Freer, Esq.
 3651. Nude Figure and Cupid.
 Lent by Charles L. Freer, Esq.
 3652. Wortley: Note in Green.
 Lent by Charles L. Freer, Esq.
- White, Edwin.**
 3653. The Sacred Lenson.
 Lent by Robert M. Olyphant, Esq.

- White, Orrin A.**
 3654. Autumn in the Canyon.
 3655. Snow Blown Peaks.
- Whiteman, S. Edwin.**
 3656. Summer Breeze.
- Whitney, Beatrice.**
 3657. Odalisque.
- Whittemore, William John.**
 3658. Portrait of Father and Mother.
 3659. Baby's Head.
 3660. In the Nursery.
- Whittredge, Worthington.**
 3661. A Breezy Day.
 Lent by the Lotos Club.
- Wickwire, Jere E.**
 3663. Portrait of My Mother.
- Weiczorek, Max.**
 3663. Mother and Child.
 3664. Young Girl.
 3665. Mrs. John P. Jones.
- Wiles, Irving Ramsey.**
 3666. Arnold W. Brunner, Esq.
 Lent by the National Academy of Design.
 3667. J. Francis Murphy, Esq.
 Lent by the National Academy of Design.
 3668. Madame Gerville-Reache as Carmen.
- Williams, Alyn.**
 3669. Tiger Lily.
 3670. The Cardinal.
 3671. Mrs. Nicholas Longworth.
- Williams, George Alfred.**
 3672. The Witch.
 3673. Boom Island Light: Ogonquiut.
 3674. Storm Cleared Sea.
 3675. The Drama of Life: The Plague.
 3676. The Drama of Life: Daughters of Man.
 3677. The Drama of the Sea: The Breakers.
 3678. The Drama of Hell: Forest of Loves.
 3680. Moonlit Breaker.
 3681. The Idol.
- Williams, Isaac L.**
 3682. Portrait of John Neagle.
 Lent by the Pennsylvania Academy of the Fine Arts.
- Williams, J. Scott.**
 3683. In September.
 3684. (No title.)
- Williamson, Ada C.**
 3685. Baby in a French Cap.
- Willson, Martha B.**
 3686. Girls' Profile.
 3687. The Lace Cap.
- Willson, Floyd.**
 3688. Chinatown: Portland.
- Wolcott, Katherine.**
 3689. On the Dunes.
- Wood, Kathryn Leone.**
 3690. Mother.
- Woodbury, Charles H.**
 3691. The Rainbow.
 3692. The Bark.
 3693. Nutmeg Island.
 3694. Tropical Sea.
 3695. Evening.
 3696. Monadnock.
 3697. The Tramp Steamer.
 3698. New Empire.
 3699. Out at Empire.
 3700. Near Pedro Miguel.
 3701. Sea Wall: Panama.
 3702. Culebra Cut.
 3703. The Great Slide.
- Woodville, E. Caton.**
 3704. War News from Mexico.
 Lent by the National Academy of Design.
- Woodward, Ellsworth.**
 3705. Felucca.
 3706. Veere.
- Woodward, William.**
 3707. Old Cabildo: New Orleans.
- Woodwell, Joseph B.**
 3708. Sand Dunes.
 3709. Squaw River.
 3710. Mist from the Sea.
- Wolf, Samuel Johnson.**
 3711. The News Stand.
 3712. The Underworld.
 3713. Brown the Wheats.
- Workman, David Tice.**
 3714. Elvet Bridge: Old Durham.
- Wright, John.**
 3715. Sicilian Landscape.
- Wright, Joseph.**
 3716. Joseph Wright and Family.
 Lent by the Pennsylvania Academy of Fine Arts.
- Wright, Louise Wood.**
 3717. In Dorsetshire.
 3718. Corfe Castle: Dorset.
- Wuerpel, Edmund H.**
 3719. The Call of Lingerin' Day.
 3720. Harmony in Brown.
 3721. Late Afternoon.
 3722. An Evening Symphony.
 3723. Gathering Clouds.
 3724. The Sheltered Bay.
- Wyant, Alexander H.**
 3725. A Mountain Brook.
 Lent by the Buffalo Fine Arts Academy.
 3726. Afternoon near Arkville: N. Y.
 Lent by the Carnegie Institute.
 3727. The Windy Day.
- Wyeth, N. C.**
 3728. Ebenezer Balfour (Kidnapped).
 3729. Captain Bones Routes Black Dog (Treasure Island).
 3730. Old Pew (Treasure Island).
 3731. The Picador.
 3732. Chinese Pirates.
 3733. Roaring Skipper.
- Wylie, Robert.**
 3734. The Story Teller: Breton Interior.
 Lent by the Pennsylvania Academy of Fine Arts.
 3735. A Breton Home.
- Yarrow, William H. K.**
 3736. Jansen: Ex-Sea-Captain.
 3737. Still Life.
 3738. In the Orchard.
 3739. The Checkered Dress.
- Yates, Cullen.**
 3740. Spring.
 3741. Old Farm: November.
 3742. November Snow.
- Young, Arthur.**
 3743. Love One Another.
 3744. Mother Jones.
 3746. This World of Creepers.
 3746. The Supreme Court Obstructs Traffic.
 3747. The Unemployed.
 3748. Senatorial Courtesy.
 3749. Pit and Dome.
 3750. Extinct.
 3751. The Game.

- Young, Charles Morris.**
3752. The Red Mill.
3753. Winter Landscape with Crows.
3754. The Gray Mill.
3755. Winter Afternoon.
3756. My House in Winter.
3757. Farm House in Winter.
- Young, Mattie.**
3758. Sister.
- Zaroubine, Victor.**
3759. Clouds.
- Ziegler, Karl.**
3760. Portrait Study of a Child.
- Ziam, Felix.**
3761. Garden in Venice.
Lent by Charles F. Adams, Esq.
3762. Stamboul.
- Zimmerman, M. W.**
3763. The Chalet at Night.
3764. Across the Lake.
3765. Across the Valley.
- Zorach, Marguerite.**
3766. The Waterfall.
3767. Legend.
3768. The Earth.
3769. Spring.
- Zorach, William.**
3770. Flowers.
3771. The Country Valley.
3772. The Wood Cutters.
3773. Woods in Autumn.
- Zugel, Heinrich von.**
3774. In the Rhine Meadows.

H. A. VAN CAENEN TORCHIANA
Commissioner General

WILLEM WITSEN
Commissioner of Fine Arts

G. E. DE VRIES
Assistant Commissioner of Fine Arts

HOLLAND SECTION

- Addicks, Christian Johannes.**
1. Mother and Child.
- Akkerings, Johannes.**
2. On the Edge of the Water.
- Arntzenius, Paul.**
3. Native of Volendam.
- Asscher, Henriette.**
4. Tailor Hands at the Old Men's Home.
- Bastert, Nicolaas.**
5. My Village.
6. Enkhuizen Harbour.
- Bauer, Marius.**
7. Oriental Equestrian.
- Bautz, David.**
8. Dead Birds.
- Beek, Bernardus Antonie.**
9. Dutch Landscape.
- Berg, Anna C. van den.**
10. Larkspur.
- Berkemeyer, Ludolph.**
11. On the Banks of a Dutch Lake.
- Bleckmann, W. C. C.**
12. Spring.
- Blommers, Bernardus Johannes.**
13. On the Way Home.
14. Summer.
- Bodifé, Paul.**
15. Field of Blooming Poppies.
- Boer, G. J. de.**
16. In the Woods.
- Breitner, G. H.**
17. Amsterdam Timber-Port.
- Breman, C. O.**
18. The Bay of Naples.
- Chattel, Fredericus J.**
19. To the Mill.
- Coert, Antoni.**
20. The Deserted House.
- Deutman, Frans.**
21. Old Woman.
- Deventer, Johanna Cornelia van.**
22. Beeches.
- Dooyewaard, Jacob.**
23. Meditation.
- Dnyl-Schwartz, Th. van.**
24. The Fan.
25. Mahler's Bust by Rodin.
26. Portrait of H. M. the Queen of the Netherlands.
- Dysselhof, G. W.**
27. Lobsters.
- Engel, Frederik.**
28. Milking Time.
- Jan, van Essen.**
29. Pelicans.
- Frankfort, E. D.**
30. Along the Road.
- Garjeanne, J.**
31. Shadows of the Clouds.
- Garms, Coenraad M.**
32. The Enkhuizen St. Pancras Steeple.
- Gerdes, Ed.**
33. Womanhood: 1913.
- Goedvriend, Theodoor.**
34. From a Fairy of the Veluw County.
35. Old Cottage at Chailly: France.
- Gori, Berta.**
36. Old Woman.
- Gorter, Arnold Marc.**
37. Autumnal Day.
- Graafland, Rob.**
38. Summer Day.
- Groot, G. de.**
39. In the Kempen Country.
- Haverman, H. J.**
40. Fresh Life.
- Hem, Piet van der.**
41. Katwyk Fisherwoman.
- Hyner, Arend.**
42. Village Talk.
- Israels, Isaac.**
43. Spanish Cafe.
44. The Great Mare.
- Ives Browne, Robert.**
45. Before the Mirror.
- Jans, Jan.**
46. Standing Water on the Sand Hills: Spring Morning.
- Jurres, J. H.**
47. Casting Stones at Don Quixote.
- Kerling, Anna E.**
48. Diligent Old Woman.
49. Providing with Fodder.
- Koster, Anton Louis.**
50. A Bulb Grower's House with Nursery of Darwin Tulips in Holland.
51. View on the River Spaarne near Haarlem.
- Krabbe, H. M.**
52. At Granny's.
53. First Steps.
- Kramer, Martinus.**
54. Winter Time in Holland.
- Ledeboer, Hans.**
55. What I Saw in My Dream.
- Lenselink, Rens.**
56. March Weather in Holland.
- Maarel, M. van der.**
57. Idleness.
- Martens, Willy.**
58. Going to Church.
- Mastenbroek, Johan Hendrik van.**
59. In the Lock at Delfshaven.
60. As Busy as Bees in the Harbor at Rotterdam.
- Mension, C. J.**
61. The Beast of Prey.
- Mesdag, H. W.**
62. Sunset.
- Meyer, Johan.**
63. Early Morning.
- Moen, Charles Antoine.**
64. Begonias.
- Mondriaan, Frits.**
65. The Hague Wood in October.
- Monnickendam, Martin.**
66. Life's Joy.
- Nakken, Willem Carel.**
67. Cart for the Conveyance of Stones.
68. Near Paris.
- Oldewalt, Ferdinand Gustaaf Willem.**
69. For the Poor.

- Overbeek, G. J. van.
70. Cart Horses at the Bank of the River.
- Pieters, Evert.
71. Gypje.
- Regt, P. de.
72. Dreary Day in Spring.
- Repelius, Betsy.
73. Interior of a Dutch Home.
- Rhynnen, Jan van.
74. Charming Spot.
- Roelofs, Albert.
75. Meditation.
- Roelofs, Willem E., Jr.
76. In the Land of Tulips.
- Rosse, Hermann.
77. The Water Palace.
78. Carmel Bay.
- Schaap, E. B. D.
79. Spring.
- Schaap-van der Pek, H. W. J.
80. Ruins on a Mountain Top.
- Schermer, Cornelis.
81. Billeting Dutch Lancers.
- Schildt, Martinus.
82. Interior of a Home.
- Schipperus, Pieter Adrianus.
83. Winter.
- Schulman, David.
84. A Winter Afternoon at Laren.
- Sluiter, Willy.
85. The Angelus.
- Sluyters, Jan.
86. Woman in Scarlet.
87. Woman in Yellow.
- Smith, Hobbe.
88. Old Woman Reading the Bible.
- SteeLink, Willem.
89. On the Heath.
90. Along the Coast.
- Steeze de Jong, J. F.
91. Sunday Morning at Laren.
- Surie, Jacoba.
99. Boy and Vegetables.
- Thol-Buysch, Aletta van.
93. Mushrooms.
- Tholem, W. B.
94. Church Near Leldem.
- Tonge, Lammert van der.
95. Riches.
- Velsen, Suzé.
96. Autumn.
- Vlaanderen, Joh.
97. Country Road in the County of Overyssel.
- Vreedenburg, C.
98. Unloading Peat on the Edge of the Canal.
- Vredenburg, Schotel M.
99. Slum in the City of Hattem.
- Waay, Nicolaas van der.
100. A Dutch Orphan House Girl.
- Wandscheer, M.
101. Nasturtium.
- Waning, Cornelis, Anthony van.
102. Ancient Part The Hague City.
- Woele, H. J. van der.
103. Dutch Ploughing Oxen.
- Weissebruch, Jan Willem.
104. View of a Dutch City.
- Westermann, G.
105. On the Pavement.
- Weyns, J. H.
106. Old Women's Home.
- Wiggers, Derk.
107. Full Moon.
- Willigen, C. A. van der.
108. Nasturtium.
- Witsen, W.
109. Binnenkant: Winter at Amsterdam.
110. Montelbaans Steeple: Oude Waal at Amsterdam.
- Wolbers, Hermann Gerardus.
111. In the Meadow.
- Wolter, Hendrik Jan.
112. Fishing Fleet Leaving a Cornish Harbor.
- Wysmuller, J. H.
113. View of Part of the City of Amsterdam.
- Zoetelief, J.
114. On the Beach.
- Zon, Jacques.
115. Navying.

GRAFISKE KUNST

- Arntzenius, Paul.
116. The Training Ship.
117. The Old Dutch Waterland.
- Baner, M. A. J.
118. The Holy Camel.
119. A Damascus Bazar.
120. An Oriental Prince.
- Bosch, Etienne.
121. Salerno.
122. Notre Dame de Paris.
- Dupont, P.
123. Western Church Steeple.
124. Old Church Steeple.
- Graadt van Boggen (Johannes Mattheus).
125. Old Bridge.
126. Showery Weather.
- Harting, Dirk.
127. Amersfoort Canal.
128. The Amsterdam Lock.
129. Beggar.
130. Generalife.
131. Ass Drivers.
- Hemelman, Albert.
132. Small Gelder Yard.
133. Pile Driver at Amsterdam.
- Hoytema, Th. van.
134. White Herons.
135. Cactus.
- Jong, Toon de.
136. Meere Cathedral.
137. Tjalk Outside Dordrecht.
- Koekkoek, Gerard.
138. Delfshaven Harbour.
- Kouw, Casper Marinus Leendert.
139. On the Dyke.
140. Thistle.
- Krabbe, H. M.
141. Portrait of a Child.
142. Portrait of a Lady.
- Kramer, Martinus.
143. To the River.
144. Downs-Oaks.
- Moulynn, S.
145. Le Chateau de Beaufort.
146. Study of the Nude.
147. Villa d'Este.
- Nieuwenkamp, W. O. J.
148. Woodcutters.
149. Edam.
150. On the Lake.
151. Dropping Leaves.

Poortenaar, Jan.

- 152. Trafalgar Square.
- 153. Jerusalem Chamber: Westminster Abbey.

Proost, Johannes.

- 154. Brick Kiln.

Schelfhout, Lodewyk.

- 155. Winter Tree.
- 156. Les Angles.

Tholen, W. B.

- 157. Nave.
- 158. Harbour.
- 159. The Philosopher.
- 160. Cage.
- 161. Grass.

Veldheer, J. G.

- 162. The Borough.
- 163. The Old Watchman.
- 164. Rotterdam.
- 165. Harlem St. Anne.

Velsen, Suze.

- 166. Sunny Doorlet.
- 167. Old Dutch Slum.

Witsen, W.

- 168. Reconstruction in Old Amsterdam.

Zwart, W. de.

- 169. The Kran Lock.
- 170. Steeple Montelbaan: Oude Waal.
- 171. Sunny Tree-Lined Path.
- 172. Cattle Market.

BEELDHOUNKUNST**Clercq, T. la.**

- 1. Perdition.

Dantzig, Rachel M. van.

- 2. Mother and Child.
- 3. Italian Farmer's Wife and Kid.

Hesselink, Abraham.

- 4. Narcis.
- 5. Lidia.

Jeltsema, T. E.

- 6. Rythmus of Dance: Isidora Duncan.
- 7. Young Sportsman Sitting Down: Ready to Start Again.

Mesdog, H. W.

- 8. A Stormy Sea.

Schreve-Yzerman, Jo.

- 9. Amsterdam Orphan Girl.
- 10. Da War es od und Leer.

Wyk, Charles van.

- 11. On the Way Home.
- 12. Sheep and Lamb.
- 13. Cessation from Labor.

A. D. DUFFNER
Executive Officer of the
Portuguese Commission

PORTUGUESE SECTION

- Aires, Frederico Paraira.**
 1. A View of Minho.
 2. The Great Overflowing.
 3. Fog in River Tagus.
 4. The Shore of Buarcos.
 5. Cape Mondego.
 6. The Country of Santarem.
- Azevedo e Silva, Antonio Goncalves.**
 7. The Top.
 8. A Love Affair.
 9. The Parrot.
 10. Errand Boy.
 11. Testing the New Wine.
- Batalha Reis, D. Zoé.**
 12. On a Festival Day.
 13. The Cup of Tea.
 14. Chilly.
- Bordalo Pinheiro, Columbano.**
 15. Portrait of the Portuguese Poet Bulhao Pato.
 16. Portrait of the Portuguese Actor Vale.
 17. The White Glove.
 18. Oranges.
 19. Oysters.
- Bonvalot, Carlos.**
 20. Job.
 21. Study.
 22. The Grandmother.
- Brito, José da.**
 23. The Wave.
 24. Tired of Waiting.
- Calderon, Leandro Joao.**
 25. A Court in Minho.
 26. The Road to Louza.
 27. The Ancient Monastery of Alcobaca.
- Campas, Jose.**
 28. Idyl.
- Cardoso, Artur Alves.**
 29. A Cork Tree in the Afternoon.
 30. A Country Home.
 31. Weaving.
 32. A Farm in Alentejo.
 33. The Beautiful Apple Tree.
 34. The Granddaughter Amusing Herself.
 35. Portrait.
 36. Portrait.
- Condeixa, Ernesto Ferreira.**
 37. The Vintage.
 38. A Seaman.
- Correa de Lacerda, Alberto V. da Rocha Portugal.**
 39. Blindman's Buff.
 40. The Church of Santa Clara-a-Velha: Coimbra.
 41. At Dawn.
 42. The Porta da Agua: Alfeite.
- Cristino da Silva, Joao Ribeiro.**
 43. A Court in the Environs of Leiria.
 44. Sunset at Belem: Para.
- Fonseca, Martinho Gomes da.**
 45. An English Lady.
 46. A Child's Head.
 47. Leda Surprised.
- Goncalves, D. Maria F. Manhin.**
 48. In the Dining-Room.
- Guedes, Pedro.**
 49. Cheesemaker.
 50. Effect of Light.
 51. Noon's Rest.
 52. The Road to Barrosa.
- Malhoa, Jose.**
 53. The Native Song.
 54. Returning from the Festival.
 55. The Country Schoolmaster.
 56. A Catholic Procession in the Country.
 57. Stop, Father!
 58. The Drunkards.
 59. Teasing.
 60. The Nightingale's Veranda.
- Manta, Abel Abrantes.**
 61. The Cloister of the Silence in the Monastery of Santa Cruz: Coimbra.
 62. A Miserable Ward.
 63. A Sad Landscape.
- Melo, David de.**
 64. An Old Woman.
- Milly, Possos.**
 65. Roses.
 66. Oranges.
 67. Death Nature.
 68. Drawing.
- Moraes, Narciso Alfredo de.**
 69. The Grandmother.
 70. The Blacksmiths.
- Praat, Artur.**
 71. Herd of Sheep: Foggy Morning.
 72. Ambuscade.
- Reis, Joao.**
 73. Spring.
 74. Needy Homes.
 75. Autumn Morning.
 76. Roofs in the Village.
- Ribeiro, J., or José Nunes.**
 77. The Potter.
 78. An Arabian Smoking.
 79. At the Looking Glass.
 80. The Mountain of Cintra.
 81. The Path of Colares.
 82. A Rustic Home.
 83. Lighting the Cigarette.
 84. At Dawn.
 85. A Rustic Farm House: Environs of Cintra.
 86. The Lake of Sete Cidades in the Island of St. Michael.
 87. Preparing for the Wash.
 88. A Corner at Sete Cidades in the Island of St. Michael.
- Saude, Antonio Manoel da.**
 89. On the Banks of the Meuse.
 90. The Moon Over the Seine.
 91. The Night and the Seine.
 92. On the Banks of the Zezere.
 93. On the Banks of the Meuse.
 94. On the Banks of the Zezere.
- Sousa Lopes, Adriano de.**
 95. The Pilgrimage.
 96. Portrait.
 97. Portrait.
 98. Portrait.
 99. Effect of Light: Study.
 100. The Home of the Washerwoman.
 101. The Home of the Sexton.
 102. Effect of Moonshine: Venice.
 103. Almond Tree in Blossom.
 104. The Canal of St. Gregory: Venice.

105. The Sun in Winter.
 106. Under the Orange Trees.
 107. The Court of the Lacemakers:
 Bruges.
 108. Study.
 109. Landscape.
 110. Landscape.
 111. The Spanish Bridge: Bruges.
 112. The Canal: Venice.
 113. The Shore of Nazare.
 114. My Village.
 115. A Village Church.
 116. Thirteen Impressions: Portugal.
 117. Seven Impressions: Venice.
 118. Court in Bruges: Belgium.
 119. Five Impressions: Venice.
- Trigoso, Joao de Melo Falcao.**
 120. Golden Seacoast: Algarve.
 121. The Silver Weddings.
- Vaz, Joao.**
 122. An Old Wharf.
 123. The Church of the Mother of God:
 Lisbon.
 124. Embarking.
- Veloso Salgado, José.**
 125. Gathering Sea Moss: Minho.
 126. Ox Driver: Minho.
 127. Charm.
 128. Sea Flower.
 129. A Girl of Minho on Sunday.
 130. Washerwoman of Minho.
- GROUP 1
 CLASS 2
- Christino da Silva, Joao Ribeiro.**
 131. An Ancient Convent: Environs of
 Merceana.
- Fonseca, Martinho Gomes da.**
 132. Little Boy.
 133. Ecstasy.
 134. Ellen.
 135. Mary.
 136. A Nun.
 137. Fixing One's Eyes.
- Matoso da Fonseca, Joao Guilherme.**
 138. Getting Warm.
 139. Going Far Off.
- Mily, Possoz.**
 140. Mother and Daughter.
 141. Study.
 142. Environs of Etampes.
- Ribeiro Jor., José Nunes.**
 143. Door in the Alcazar: Tangier.
- GROUP 2
 CLASS 3
- O Comercio do Porto.**
 Engravings.
- GROUP 3
 CLASS 4
- Castro, Rodrigo de.**
 144. A Child Study: Marble.
- Costa Mota, Antonio Augusto da.**
 145. The Digger.
- Prat, Artur.**
 146. Dreaming.
- Simões d'Almeida, Sobrinho José.**
 147. Bust of an Old Woman.
 148. The Wake.
 149. Childhood.
- Tomás, Costa.**
 150. Hebe.
 151. Venus Anadyomene.
 152. David.
- Vaz Jor., Julio.**
 153. The Grandmother.
 154. Octogenarian.
 155. The Light and the Darkness.
- GROUP 3
 CLASS 7
- Barreiros, Augusto Cesar.**
 Wood Carvings, Louis XIV Style.

P. RICHARD BERNSTROM
Commissioner General

ANSHALM SCHULTZBERG
Commissioner of Fine Arts

SWEDISH SECTION

PIANTINGS, DRAWINGS, ETCHINGS AND TAPESTRIES

Aminoff, Gregori.

1. The Peacock.

Backlund-Celsing, Elsa.

2. Skiling.
3. Tobogganing.
4. The Birthday Table.

Bauer, John.

5. Fairy Girl.
6. Brother Martin: 1.
7. Brother Martin: 2.
8. Brother Martin: 3.
9. Brother Martin: 4.
10. Flipper Woman.
11. "It is the Wood Nymph," said the Moose.
12. "Is It Silver?" asked a hoarse voice.
13. Wingmor: opened.
14. The Princess Sat Amid Flowers.
15. The Witch Hewed Firewood.
16. Hut and Goblins.
17. The Fogey is Furious.
18. Goblins and Dogs.
19. "'Tis Thy Eyes," said the Goblins.
20. The Magic Plant.
21. Humpe at the Spring.
22. Humpe and His Mother.
23. The Fairy and the Hultra-forests Nymph.
24. The Goblins Jumped.
25. The Lady of the Woods.
26. The Giant Boy Who Slept 15 Years.

Behm, Wilhelm.

27. Winter Evening.
28. Autumn Day.
29. Farmstead.
30. Snowflakes.
31. Sunset in the Forest.
32. Spring Evening.

Bergman, Oscar.

33. Midsummer.
34. Birch Trees in Springtime.
35. Cliff and Snow.
36. Apple Bloom.
37. Islands Outside Stockholm.
38. Gray Weather.
39. Fruit Trees in Bloom.
40. Thaw.
41. Pines and Snow.
42. Winter: 1.
43. Winter: 2.
44. Winter: 3.
45. Winter: 4.
46. Winter: 5.
47. Ice Formations after Storm.
48. Cypress.
49. Fiesols.
50. The Lighthouse.
51. Sandhamn.
52. Firs and Snow.

Bergström, Alfred.

53. Spring Day.
54. Spring Evening.
55. Summer Evening.

Bergström, Sigge.

56. Hilly Country.
57. Cliffs.
58. Sunny Recess in the Mountains.

Boberg, Anna.

59. First Snow in the Mountains.
60. The Fisher's Cemetery.
61. Arctic Night.
62. Huts and Boats.
63. Drying the Sails.
64. The Glacier Lake.
65. In This Fjord of the Dead.
66. April Morning.
67. Fisherboats in the Harbour.
68. Spring in the Mountains.
69. Lights and Shades.

Burmeister, Gabriel.

70. The Rill.
71. Old Age.
72. Contemplation.

Carlburg, Hugo.

73. Spring Morning at the River.
74. Crofters Returning Home.
75. Timber Drivers.
76. Springtime.

Dufva, Torigny.

77. Summer Day.

Elgström, Ossian.

78. Tjudes Tale.
79. Tjudes Tale.
80. The Arctic Seas Tale.
81. Horagulla Gets Angry.
82. The Duel.
83. The Duel.
84. Warris Tale.
85. Tjudes Tale from Jakonga: 1.
86. Tjudes Tale from Jakonga: 2.
87. Tjudes Tale from Jakonga: 3.
88. Tjudes Tale from Jakonga: 4.
89. The Laplander Who Disbelieved His Master: 1.
90. The Laplander Who Disbelieved His Master: 2.
91. The Laplander Who Disbelieved His Master: 3.
92. The Laplander Who Disbelieved His Master: 4.
93. Tarras or Five Gods.
94. The Soul's Transmigration.
95. The Drama at Gandvik: 1.
96. The Drama at Gandvik: 2.
97. The Drama at Gandvik: 3.
98. Ajataja Sorcery.
99. Northern Lights.
100. Return to the Earth.
101. The Jabmekaibmo—Travel: 1.
102. The Jabmekaibmo—Travel: 2.
103. The Jabmekaibmo—Travel: 3.
104. The Christmas Night.
105. The God.

Ericksson, Erik Edw.

106. Mother's Joy.

Fahlcrantz, Axel.

107. Approaching Storm.
108. Moonlight and Rising Mist.

Fjaestad, Gustav.

109. The First Snow.
110. The First Snow.
111. Winter.
112. Winter.
113. Head of the Poet G. Froding.
114. April Morning.
115. The Artist's Portrait.
116. Winter Afternoon.

117. Summer Night's Breeze.
 118. New Cottage in the Forest.
 119. The Spring in Springtime.
 120. Winter Moonlight.
 121. Hoarfrost in the Mountains.
 122. Easter.
 123. Moonlight on the Mountain Lake.
 124. Hoarfrost in Sunlight.
 125. Rippling Water.
 126. Moving Water.
 127. Moving Water.
 128. Winter Night.
 129. Thaw in the Forest.
 130. Summer Evening at the River.
 131. Spring: Winter.
 132. Meditation: Winter Moonlight.
 133. Summer Night.
 134. Thaw.
- Grandström-Knofl, Edith.**
 135. Spring Time.
 136. The First Spring Day.
 137. Winter Day.
- Hedberg, Erik.**
 138. New Fallen Snow.
 139. Between the Mountains.
 140. Summer Night.
 141. Spring Evening.
- Hesselborn, Otto.**
 142. My Native Country.
 143. View Over the Lake Arran.
 144. Pine Tree in Snow.
- Hjortsberg, Olo.**
 145. My Wife.
 146. Italian Man.
 147. Head.
 148. Forge in Terracina.
- Hullgren, Oscar.**
 149. Sun Glitter on the Sea.
 150. Winter Evening in Lofoten.
 151. The Sea.
 152. Breaking Sea.
- Johansson, Carl.**
 153. Early Spring.
 154. Evening.
 155. Almond Trees.
 156. Summer Day.
 157. The Baltic Sea.
 158. Pine Trees in Sunlight.
 159. The Sacrificial Grove.
- Kallstenius, Gottfrid.**
 160. Iron Works in Vestergotland.
 161. Manor House in Varmland.
- Kulla, Axel.**
 162. The Artist's Portrait.
 163. The Naked Birch.
 164. Setting Sun: Still Water.
- Küsel, Ernst.**
 165. Calves.
 166. Ducks.
 167. Kids by the Fence.
- Larsson, Carl.**
 168. Between the White Trunks.
 169. The Doorsteps.
 170. The Study.
 171. Ski Runner.
 172. The Reading Room.
 173. Forth Outfit.
 174. Deep Thoughts.
 175. The School Children's Household.
 176. The Workshop.
 177. A Lodge.
 178. The Homes Angel.
 179. The Kitchen Maid.
 180. The Old Room.
 181. Dressing Up for the Joke.
 182. Toilet in the Summer Morning.
 183. Repairing.
 184. Mother Kersti.
185. The Dining Room.
 186. Wash House.
 187. The Bed Room.
 188. The Dogs.
 189. Lisbeth Takes in by Ladefuls.
 190. Nude Girl by the Stove.
 191. Reverence.
 192. Heilberg's Chicks.
 193. Nude Girl.
 194. Nude Girl.
 195. Lisbeth.
 196. A Girl's Back.
 197. Karin Does Kerstis Hair.
 198. Mother.
 199. Anna-Stina.
 200. Martina.
 201. The Grandchild.
- Liljeoford, Bruno.**
 202. Swans.
 203. Wild Geese.
 204. Sea Eagles.
 205. Sea Gull at the Nest.
- Lindh, Eror.**
 206. Kiruna.
- Lindquist, Herman.**
 207. Sunny April Day.
- Mas-Olle, Helmer.**
 208. Dalecarlian Girl.
 209. Old Peasant from Dalecarlia.
 210. Old Dalecarlian Man.
 211. Portrait of Rector Magnificus Schück.
 212. Old Dalecarlian Man.
 213. Dalecarlian Women.
 214. Peasants from Dalecarlia.
 215. His Majesty King Gustaf V.
- Osalund, Helmer.**
 216. Mullfjället.
 217. Water Fall Porjus.
 218. Water Fall Porjus.
 219. The Water Fall Handölsforsen.
 220. Summer Evening.
 221. Evening.
 222. The Water Fall Elfkarliso.
- Schultsberg, Anshelm.**
 223. Winter in the Forest.
 224. Charcoal Burning.
 225. The Coal Man's Hut.
 226. Midsummer Night.
 227. Gray Winter Day After the First Snow.
 228. The Wood Barn.
 229. Winter.
 230. Winter in the Forest.
 231. A Frosty Afternoon.
- Smith, Vilhelm.**
 232. Ploughing.
 233. Winter Afternoon.
 234. The Avenue.
 235. "It Will Be a Windy Night."
 236. Fishers.
- Strandberg, Gabriel.**
 237. The Drinker.
 238. The League Boy.
 239. The Cripple.
 240. Trampler.
- Torsander, Gustav.**
 241. Winter Moon.
 242. Lamplight in the Fog.
- Torneman, Axel.**
 243. Torgny Lagman.
 244. The Dead Girl.
- Wallin, David.**
 245. Spring.
- Wieslander, Agnes.**
 246. Autumn Day on the Plains.
- Vrongel, Anna.**
 247. Fishersfolk.

Foir, Emil.

- 248. Potato Gathering.
- 249. Breakers.

Osterlund, John.

- 250. The Abandoned Church.

Osterlund-Wigert, Mathilda.

- 251. Thaw.
- 252. When the Leaves Fall.

Osterman, Emil.

- 253. His Majesty King Gustaf V.
- 254. Portrait of Professor Curman.

SCULPTURE

Ahlberg, Olof.

- 255. A Sunny Moment.
- 255A. Lady's Head.
- 255B. Laughter.

Boberg, Sven.

- 256. The First Autocar in Smaland.

Börjesson, John.

- 257. Charles X.
- 258. Scheele.
- 259. Christ with the Child.
- 260. Consolation.
- 261. Music.
- 262. Art and Sloyd.

Börjesson, Lena.

- 263. Secretum.
- 264. The Changeling.

Edström, David.

- 265. Study of Old Man.
- 266. Rhapsody.
- 267. Sphinx.
- 268. Mask.
- 269. Ellen Key.
- 270. Doctor Forsell.
- 271. Judge X.
- 272. Fribog.
- 273. Doctor Loostrom.
- 274. Doctor Romdahl.
- 275. Young Swedish Girl.

Farngren, Johan.

- 276. Monique.
- 277. Study of a Head.

Jarn, Knut.

- 278. August Strindberg.

Larsson, Gottfrid.

- 279. Portrait of My Mother.
- 280. Old Florentine.
- 281. Original of Florence.
- 282. Brutal Force.
- 283. Industry.
- 284. Iron Workers.

Lindberg, Erik.

- 285. Medals.
- 286. The Swedish Challenge Prize at the Olympian Games.

Lundberg, Theodor.

- 287. The Little Boatmaker.
- 288. Mother's Joy.

Milles, Ruth.

- 289. Young Peasant Woman.
- 290. Old Peasant Woman.
- 291. The Little Cripple.
- 292. The Busy Little Girl.
- 293. After Waiting in Vain.
- 294. The Fisherman's Wife.

Nordin, Alice.

- 295. Praise to the Nature.
- 296. Ashes Urn.
- 297. Holger Drachman.

Nenjd, Herman.

- 298. The Little Dancing Girl.
- 299. The Spring.
- 300. Wood Nymph.
- 301. Stina.
- 302. Fourteen Years.
- 303. Head of a Boy.

Olsson, Anders.

- 304. Blond.

Sprinchorn, Gerda.

- 305. Big Brother.

Wissler, Anders.

- 306. Peasant Player.
- 307. Minx.
- 308. Girl Playing Concertina.
- 309. A Necromancy Lesson.
- 310. Three Weeks Old.

**DRAWINGS, ENGRAVINGS AND
ETCHINGS**

Athin, Caleb.

- 311. Sonata.
- 312. In Arcadia.
- 313. Marc and Toal.

Bergström, Sigge.

- 314. Filipstad.
- 315. At the Mouth of the River.
- 316. At the Strand.
- 317. Hokbergst.
- 318. Winter.

Beve, Eva.

- 319. Village Street.
- 320. Surface of Water.
- 321. Prayer.
- 322. In Thoughts.
- 323. Parrot.

Björkman, Elsa.

- 324. March Evening.
- 325. Lungarno.
- 326. From Dalecarlia.
- 327. South Part of Stockholm.
- 328. In the Offing.

Boberg, Ferdinand.

- 329. The Two Priests.
- 330. Notre Dame in the Rain.
- 331. The Ferryboat.
- 332. The Train.
- 333. Venetian Boats.
- 334. Fog in the Harbour.
- 335. The Bridge.
- 336. St. Catherine Church in Snow.
- 337. Moonlight.
- 338. Snow Storm.
- 339. Hedvig Eleonora Church in Stockholm.
- 340. Twilight in the Park.
- 341. House of Nobility: Stockholm.
- 342. Karoline Chapel: Stockholm.
- 343. Doorway of St. Jane's Church: Stockholm.
- 344. Interior of St. Stephen's Church: Vienna.
- 345. Street Near the House of Nobility.
- 346. St. Martin Bridge: Toledo.

Burmeister, Gabriel.

- 347. Nocturne.
- 348. Pastoral.
- 349. The Silent Place.
- 350. Adagio Pathétique.
- 351. Old House in Dalecarlia.

Cramér, Ed.

- 352. The Gates of the Fide Cemetery.

Fischer, Per.

- 353. Lacko Castle.

Gehlin, Hugo.

- 354. April.
- 355. Song of Solomon: 11 chap., 7 verse.
- 356. The Favoured.
- 357. The Gallant and the Death.
- 358. Old End Wall.

Hallén, Arne.

- 359. In the Café.

- Hallgren, Ernst.**
 360. Interior.
 361. The Threshing Mill.
 362. Old Yard.
- Johansson, Thor.**
 363. Evening.
 364. Autumn Day.
 365. The Yard.
- Küsel, Ernst.**
 366. Cows Moving Home.
 367. Sheep.
 368. Calves Among the Reeds.
 369. Ducks.
- Ledde, Herbert.**
 370. At the Death Bed.
- Lindström, Martin.**
 371. The Hanging Birch.
 372. The Mountain Crevice.
- Luch, C. C.**
 373. Goats.
 374. The Tool House.
 375. Chantecleer.
- Nerman, Einar.**
 376. Lavalliere.
 377. Mistingnette.
- Nordensten, Ragnhild.**
 378. Storm.
- Nordling, Gerda.**
 379. The Yellow Range.
- Norlind, Ernst.**
 380. Rooks.
 381. Snow Melting.
 382. Study: Head.
 383. The Stork Pair.
- Magnus, Siri.**
 384. Double Tulips.
 385. Portrait.
 386. Dedication.
 387. Roses.
 388. Fuschia.
- Magnusson, Gustaf.**
 389. Dancing Girl.
 390. Salome.
 391. "For the First Time."
 392. Violin Player.
- Molin, Hjalmar.**
 393. Motiv from Stockholm.
 394. The Town Gate.
- Nyman, Hilding.**
 395. Skiing.
 396. The Village Shoemaker.
 397. Man from Mora.
- Petersén, Carlo.**
 398. Cats.
 399. Hens.
 400. Owl.
 401. Pepper Bird.
 402. Ducks.
 403. From the Crinoline Time.
- Petrus, Anna.**
 404. Karin.
 405. Siri Is Smoking.
 406. Profile.
- Ramberg, Gustaf.**
 407. Croft in Skane.
 408. Milking Time.
 409. Half-Timbered Building: Hven.
- Sahlén, Arthur.**
 410. Head.
 411. Evening.
 412. Barber Woman.
 413. Night in June.
 414. Pine Tree.
- Sahlström, Anna.**
 415. Youth.
 416. The Bog.
 417. Oat Harvest.
 418. Siesta.
- Schonberg, Torsten.**
 419. Self Portrait.
 420. Self Portrait (on the Ice).
 421. The Golden Chariot.
 422. The Royal Barche: "Vasa Orden."
- Schwab, Sigil.**
 423. Portrait.
 424. Self Portrait.
 425. Grimace.
 426. Grimace.
- Stangenberg, Knut.**
 427. Selma Lagerlof.
 428. Gustaf Fredrikson.
- Staat, Hjalmar.**
 429. Ski Springer.
 430. Pine.
 431. Sagare-gatan (old street in Stockholm).
- Sundström, Harriet.**
 432. Greyhounds.
 433. Labour.
 434. Ex Libris.
 435. Summer Night.
- Toir, Emil.**
 436. Solitude.
- Uberg, Emil.**
 437. The Chesnut Tree.

MR. H. YAMAWAKI
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Commissioners of Fine Arts

JAPANESE SECTION

- Shodo Hirata.
1. Voices of Little Birds.
- Sento Morimura.
2. Festival of Nara.
- Hoko Murakami.
3. Mulberry and Cocoon.
- Tesshu Okajima.
4. Early Summer Day.
- Shunki Tamaya.
5. Eastern Breeze.
- Keisui Ito.
6. Sailing Boat.
- Kashu Kikuchi.
7. Maple.
- Taisei Minakami.
8. Flower of Ryukyu.
- Banri Mitsui.
9. Southern Garden in Spring.
- Bunto Hayashi.
10. Woodcutter.
- Sesso Okada.
11. Ryukyu Shoken: Morning of Shuri.
12. Evening: Nawa Harbor.
- Shoyen Ikeda.
13. After the Intermission.
- Teinn Toshima.
14. Morning Shadow.
- Ranshu Dan.
15. Moving Clouds.
- Toyen Oka.
16. Midday of Summer.
- Banyoh Shibata.
17. Ploughing.
- Kangai Takakura.
18. Spring of Kamo River.
- Tomone Kobori.
19. Mashashige Kusunoki Saving an Enemy.
- Kogyo Tanioka.
20. Horse Market at Kiso.
- Toho Hirose.
21. Spring Rain.
- Oahu Nishi.
22. Praying for Luck.
- Hosui Okamoto.
22A. Twilight.
- OIL PAINTINGS AND WATERCOLORS**
- Kijiro Otta.
23. A Nurse.
- Gentaro Koito.
24. Cloudy Day.
- Banka Maruyama.
25. Saigo: Harbor in Iki.
- Hakutai Ishii.
26. Drizzle at a Harbor.
- Hisashi Tsuji.
27. Early Autumn.
- Kinosuke Shirataki.
28. Portrait of Mr. S. Nomura.
- Kunishiro Mitsutani.
29. Fisherman's Habitat.
- Eisaku Wada.
30. At a Seashore.
- Hironitsu Nakasawa.
31. Dim Light.
- Katsumi Miyake.
32. Afternoon at Haneda.
- Hiroshi Yoshida.
33. Creek.
- Hachiro Nakagawa.
34. Summer Morning of the Inland Sea.
- Morinosuke Yamamoto.
35. "Kiokura."
- Toraji Ishikawa.
36. Grape.
- Fusetsu Nakamura.
37. Rakan.
- Takeji Fujishima.
38. Femme Pensive.
- Naohiko Aida.
39. Storehouse on Water Front.
- Choun Yamazaki.
40. Consolation for a Classmate.
41. Breaking the Branch.
- Unkai Yonehara.
42. Sowing the Seed.
- Kingoro Yesama.
43. Saint Gama.
44. Filial Son.
45. Manzai.
- Ika Tashima.
46. Goat.
- Homei Yoshida.
47. Mantle.
- Kichigoro Murata.
48. "Uraraka."
- Hodo Tomioka.
49. Rest.
- Choso Toyama.
50. Old Man Loving Rabbit.
51. Smoking.
- Shokichi Hata.
52. Portrait of Count Okuma.
53. Hageromo.
- Kogan Tobari.
54. A Woman.
55. Tamanori Onna.
- Homei Yoshida.
56. Arayori: A Peasant Woman.
- Nagao Watanabe.
57. Strike.
- Yuhachi Ikeda
58. Hay.
- Choshun Matsuo.
59. Wadatsumi Girls.
59A. Inspiration.
- Kuniyo Kawakami.
60. Spade.
- Seibo Kitamura.
61. Hopeless Love.
- Shigeo Kawasaki.
62. Deep Water.
- Uichiro Okura.
63. Rich Harvest.
- Homei Yoshida.
64. Chinese Children.
- METAL WORK.**
- Masachika Ota.
65. Silver Box.
66. A Tower in Mist.

- Sadajiro Ametani.**
67. Copper Picture.
- Ihei Nakano.**
68. Bronze Vase: Carp.
- Kingoro Yasawa.**
69. Silver Box: Country Spring.
- Masatoshi Iwai.**
70. Bronze Ornament: Three Turtles.
- Chozo Toyama.**
71. Damasine Picture: Carp.
- Chozaburo Yamada.**
72. Iron Ornament: A Devil.
73. Iron Ornament: A Puppy.

LACQUER

- Hikobei Nishimura.**
74. Writing Box: Willow and White Stork.
75. Necktie Box: Maple of Ogura.
76. Picture: Carp.
- Kuhei Hayashi.**
77. Shelf: Pine: Bamboo: Plum.
78. Box: Hydrangea.
79. Box: Waves.
80. Box: Butterfly.
81. Box: Water Lily.
- Sakujiro Nakamura.**
82. Box: Peony.
83. Box: Evergreen.
- Masanori Ogaki.**
84. Letter Box: Snow Scene.
- Jisaburo Mikami.**
85. Paper Box and Writing Box: Temple Design.
- Kotaro Matsumoto.**
86. Ornament: Rooster.
- Hideo Kimura.**
87. Box: Leaves.
88. Tray: Waves.
- Takayasu Sasaki.**
89. Tray: Battle of Gempel.
- Shoka Tsujimura.**
90. Cigarette Box: Tree.

WOOD, BAMBOO AND OTHER MEDIA

- Shinjiro Matsukane.**
91. Screen: Design of Arms.
92. Cigarette Box: Elephant.
- Tatsukichi Fujii.**
93. Inlaid Work: Screen: Tree.
- Kozan Hosaka.**
94. Paper Knife: Insect.
95. Paper Knife: Bird.
96. Paper Knife: Sea Weed.
97. Paper Knife: Nuts.
- Cho Yui.**
98. Screen: Plum Flowers.
99. Screen: Twelve Months.
100. Screen: Hen.
101. Picture: Grape.
102. Picture: Turkey.

PORCELAIN, CROCKERY AND CLOISSONNE

- Kozan Miyakawa.**
103. Vase: Crockery: Peony.
104. Vase: Crockery: Mountain Scene.
105. Vase: Crockery: Mountain Scene.
106. Incense Burner: Crockery: Phoenix.
107. Incense Burner: Porcelain.
108. Vase: Crockery.
- Hasan Itaya.**
109. Vase: Crockery: Grass.
110. Vase: Crockery: Peacock.
111. Vase: Crockery: Bamboo Leaves.

- Tomotara Kato.**
112. Vase: Crockery: Famous Scene of Omi.
113. Vase: Crockery: Waterfall.
- Eizayemon Fukagawa.**
114. Vase: Crockery: Dragon.
- Tokumatsu Takashima.**
115. Vase: Crockery.

- Fuji Ando.**
116. Incense Burner: Cloissonne.
117. Vase: Cloissonne.
118. Vase: Cloissonne: Phoenix.
119. Box: Silver Cloissonne: Gold Fish.

- Sosuke Namikawa.**
120. Vase: Cloissonne: Pomegranate.
121. Writing Box: Cloissonne: Cormorant Catching Fish.

- Jubei Ando.**
122. Vase: Cloissonne: Plum.

- Shuto Nakamura.**
123. Vase: Crockery: Phoenix.

- Sobel Kinkosan.**
124. Vase: Crockery: Flower and Bird.
125. Vase: Crockery: Grass.
126. Vase: Crockery: Phoenix.
127. Vase: Crockery: Tree.
128. Vase: Crockery: Scenery.

- Yohei Seifu.**
129. Vase: Porcelain: Chrysanthemum.
130. Vase: Porcelain: Cherry.

- Rihei Hiraoka.**
131. Vase: Porcelain: Chrysanthemum.
132. Incense Burner: Porcelain: Four Saints.
133. Vase: Porcelain: Cherry.

- Rokubei Shimizu.**
134. Vase: Crockery: Flower.

- Maisan Yabu.**
135. Bowl: Crockery: Peony.
136. Bowl: Crockery: Procession of Daimio.
137. Vase: Crockery: Cherry.
138. Incense Burner: Crockery: Bamboo.
139. Incense Burner: Crockery: Phoenix.
140. Incense Burner: Crockery: Tree.

- Tozan Ito.**
141. Vase: Crockery: Grass.

DYED FABRICS AND EMBROIDERIES

- Shinichi Iida.**
142. Screen: Embroidered: Waves.
143. Screen: Embroidered: Iris.
144. Screen: Embroidered: Seagull.
145. Picture: Dyed Velvet: Autumn Scene.

- Jinbei Kawashima.**
146. No Dress.
147. Wall Picture: Grass Design.

- Sozayemon Nishimura.**
148. Screen: Embroidered: Lion.
149. Wall Picture: Dyed Velvet: Fuji Mountain.

- Rihichi Tanaka.**
150. Screen: Embroidered: Pheasant.
151. Screen: Embroidered: Crane: Pine.

- Sozayemon Nishimura.**
152. Screen: Embroidered: Goose.

- Seifu Tsuda.**
153. Cushion: Embroidered: Carnation.

PRINTS

- Yetsutaro Yoshida.**
154. Printing from Wood Curving: Per-simmon and Net.
- Shiro Makino.**
155. Printing: Boat in Snow.
- Bonkotsu Igami.**
156. Printing: Madrid.
157. Ground of Yoshima Shrine.
- Naosaburo Yamada.**

DESIGN

158. Printing: Horse.
- Koho Goto.**
159. Design for Screen: Boat in Reed.
- Takezo Hayashi.**
160. Design for Dish.
- Sadakichi Junicho.**
161. Design for Stand.
162. Design for Cake Bowl: Animal.
- Motokichi Terada.**
163. Design for Vase: Templo Period.
- Kakuyei Abe.**
164. Screen Design.
- Kojiro Ibuki.**
165. Design for Dish.
- Seiichiro Sawada.**
166. Designs for Vase and Screen.

OLD MASTERPIECES

- Gyokusho Kawabata.**
167. Kakemono: Group of Monkeys.
- Mitate Kawabe.**
168. kakemono: Battle Scene of Yosh-iaki Nitta.
- Yukoku Noguchi (1625-1696).**
169. Kakemono: Pine Tree.
- Chokunyu Tanomura.**
170. Kakemono: Scenery.
- Kwampo Araki.**
171. Kakemono: Peacock.
- Motonobu Kano (1476-1559).**
172. A Set of Three Pictures: Buddha in center: flowers on both sides.
- Nichokuan Sago.**
173. Screen: Hawk.
- Sotatsu Tawaraya (about 1630).**
174. Bamboo: Plum.
- Yusetsu Umikita.**
175. Scenery.
- Mitsuoki Tosa (1617-1691).**
Mitsunari Tosa.
176. Autumn Scene.
- Tsunenobu Kano (1636-1713).**
177. Dragon.
- Gantai.**
178. Goose.
- Gaho Hashimoto (1635-1906).**
179. Cat: Bamboo Forest.
- Inen.**
180. Screen: Flowers.
- Matabei Den Iwasa (1578-165 .)**
181. Court Lady.
- Moronobu Hishikawa (1638-1714).**
182. Woman.
- Masanobu Okumura (1690-1768).**
183. Mountain House.
- Kaigetsudo (about 1710).**
184. Popular Pictures.
- Baiyken.**
185. Popular Pictures.

- Choyodo.**
186. Popular Pictures.
187. "Kichijoten": Yakushiji: Copy.
- Chohoji.**
188. Resurrection of Buddha (Copy).
- Sesshu.**
189. Scenes of Four Seasons (Copy).
- Shubun.**
190. Screen: Scenes (Copy).
- Koho.**
191. Wistaria: Peony: Maple (Copy).
- Okyo Maruyama (1733-1795).**
192. Screen: Hozu River (Copy).
- Eitoku Kano (1543-1590).**
193. Screen: Pine and Eagle.
- Toko Kuroda.**
194. Screen: Fish.
- Session (1420-1506).**
195. Tiger and Bamboo.
- Tanyu Kano (1602-1674)**
196. Birds and Flowers (Rare).
- Okyo Maruyama (1733-1795).**
197. Bamboo: Rooster.
- Shunaho Katsukawa (1726-1793).**
198. Woman.
- Shohaku Soga (about 1750).**
199. Screen: Girl Under Willow.
- Taunenobu Kano (1626-1713).**
200. White Hawk.
- Sansetsu Kano.**
201. Screen: Scenery.
- To-eki.**
202. Screen: Scenery.
- Kagei.**
203. Flowers.

CARVING.

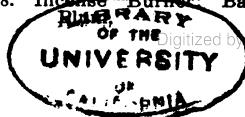
- Hosei Mori.**
204. Ornament: Battle.
- Toen Morikawa**
205. Ornament: Festival.
206. "Tentoki": by Koden (Copy).
207. "Ryuyoki": by Koden (Copy).
208. Dancing Mask.
209. "No" Dancing Mask.

METAL WORKS.

- Shukyo Tsukada.**
210. Vase: Silver: Horai Mountain.
- Ichiga Numata.**
Komakichi Hiratsuka.
211. Ornament: Fighting Soldier.
- Bisei Unno**
212. Ornament: Silver: Knight.
- Eisho Kurokawa.**
Ichiya Sekiguchi.
213. Incense Burner.
- Yukiyasu Namihira.**
214. Sword.
- Yoshihiro Sagaminokuni.**
215. Short Sword.

LACQUER WORK.

216. Ornament: Grass.
217. Writing Box: Chrysanthemum and Iris.
- Katsuyoshi Shoami.**
218. Incense Burner: Bamboo: Pine:



- 219. Box: Katawaguruma (Copy).
- 220. Box: Aster.
- 221. Writing Box: Deer and Autumn Grass.
- 222. Writing Box: Cherry.
- 223. Prayer Book Box of Yenrekiji (Copy).
- 224. Jewel Box of Ninwaji (Copy).
- 225. Table: Grass Design of Toji (Copy).
- 226. Saddle: Dancing and Music.
- 227. "Inro."

WOOD WORK.**Teishutsu Gigei in.**

- 228. Cabinet: Mulberry Tree: with the following contents and accessories:
 - 1 Picture Album.
 - 1 Picture Paper Weight: Deer Design.
 - 2 Ornaments: Wooden Figures: Colored.
 - 1 Incense Burner: Cherry Design.
 - 1 Incense Box: Cloisonne: Butterfly Design.

- 1 Incense tray.
- 3 Seals: Copper.
- 1 Seal Cabinet: Silver Inlaid: Peony Design.
- 1 Ink Box: Dragon Design.
- 1 Writing Box: Pine and Waves: Inlaid Birds.
- 1 Knife: Made in Seiji Namikawa.

CLOISONNE AND PORCELAIN.**Ryosan.**

- 229. Vase: Pine and Fish.

Toji.

- 230. Vase: Pine and Rising Sun.
- 231. Vase: Corn.

Juji Ando.

- 232. Vase: Cloisonne: Spring Chickens.

EMBROIDERIES AND DYED FABRICS.

- 233. A Set of No Dancing Costumes, consisting of
 - 1 Kara-ori.
 - 1 Atsuta Kimono.
 - 1 Nulhaku.
 - 1 Happi.
 - 1 Hankiri.

EDUCATION AND SOCIAL ECONOMY

Official Catalogue
of Exhibitors

PANAMA - PACIFIC
INTERNATIONAL EXPOSITION
SAN FRANCISCO 1915



The Wahlgreen Co.
Publishers

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PANAMA-PACIFIC INTERNATIONAL EXPOSITION
SAN FRANCISCO
OFFICE OF THE PRESIDENT

July 10 1914.

To Whom It May Concern:-

This is to certify that the Wahlgreen Company, of which Mr. G. A. Wahlgreen is the President and Manager, has been given a contract by the Panama-Pacific International Exposition Company authorizing and requiring the Wahlgreen Company to publish the official daily programme, official catalogue, official hand-book, official guide and official maps of the Exposition.

G. A. Wahlgreen
President.



Alfred H. Hanning
Secretary.

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PANAMA-PACIFIC INTERNATIONAL EXPOSITION
San Francisco, 1915.

**Official Catalogue of
Exhibitors**

**Panama-Pacific International Exposition
San Francisco, California, 1915**

CHARLES C. MOORE
President

Director-in-Chief
FREDERICK J. V. SKIFF

Division of Exhibits

ASHER CARTER BAKER, Director

Department **C**

SOCIAL ECONOMY

ALVIN E. POPE, Chief

Preliminary Edition

Published for the Division of Exhibits by
The Wahlgreen Company, Official Publishers
San Francisco, 1915

PREFACE

By Asher Carter Baker, Director of Exhibits

A modern, universal exposition is an encyclopedia of man's words and works. It is a collection of the achievements and productivity of man for examination by the International Jury of Awards, and constitutes a compact, classified, indexed compendium of man's activity in all phases, extending to the most material as well as to the most refined products. It is estimated that a million objects are exposed in the various displays installed within the palaces, in foreign, state and special pavilions. To properly classify, group and arrange alphabetically all the exhibits of an exposition of such international scope, is a task of such magnitude as to make it impossible to provide a complete catalogue of these exhibits on opening day of the Exposition.

This edition of the official catalogue is therefore presented preliminary to the revised and complete catalogue which will be issued within a few weeks, and to the preparation of which, in realization of its extraordinary value as a document of general and commercial reference, special care is being given.

The present volume, however, capably serves the purpose for which it is designed, as an early index of the infinite variety of interesting exhibits which are the concrete evidences of the industrial, educational and artistic advancement of the world.

Acknowledgment is hereby offered of the excellent co-operation received in the compilation of this catalogue from the Commissioners-General of participating nations, officers of State Commissions, individual exhibitors, and more particularly, the various officers of the Division of Exhibits, and the Official Catalogue Company, publishers of the catalogue.



PALACE OF MANUFACTURES

MANUFACTURES

Official Catalogue Department E

CLASSIFICATION OF EXHIBITS

Stationery, Desk Accessories, Artists' Materials.

Cutlery.

Silversmiths' and Goldsmiths' Ware.

Jewelry.

Clock and Watch Making.

Objects Exhibited More for Their Ornamental
Design Than for Their Utility.

Ornamental Productions in Marble, Bronze,
Cast Iron and Wrought Iron.

Leaded, Stained and Mosaic Glass.

Brushes, Fine Leather Articles, Fancy Articles
and Basket Work.

Articles for Traveling and for Camping, India
Rubber and Gutta Percha Industries.

Hunting Equipment and Products of Hunting.

Fishing Equipment and Products.

Toys.

Permanent Decoration and Fixed Furniture for
Buildings and Dwellings.

Office and Household Furniture and Utilities.

Mortuary Monuments and Undertakers'
Furnishings.

Hardware and Woodenware.

Electro-Thermal Apparatus.

Insulating Materials for Electricity.

Paper Hanging.

**Carpets, Tapestries and Fabrics for Upholstery.
Upholsterers' Decorations.**

Ceramics.

Plumbing and Sanitary Materials.

Glass and Crystal.

**Apparatus and Processes for Heating and
Ventilation.**

**Manufacture, Distribution and Uses of Gas for
Light and Fuel.**

**Apparatus and Methods for Lighting, Not
Otherwise Classified.**

Textile Materials, Spinning and Rope Making.

**Equipment and Processes Used in the Manu-
facture of Textile Fabrics.**

**Equipment and Processes Used in Bleaching,
Dyeing, Printing and Finishing Textiles in
Their Various Stages.**

**Equipment and Processes Used in Sewing and
Making Wearing Apparel.**

Threads and Fabrics of Cotton.

**Threads and Fabrics of Flax, Hemp, Etc. ;
Cordage.**

Yarns and Fabrics of Animal Fibers.

Silk and Fabrics of Silk.

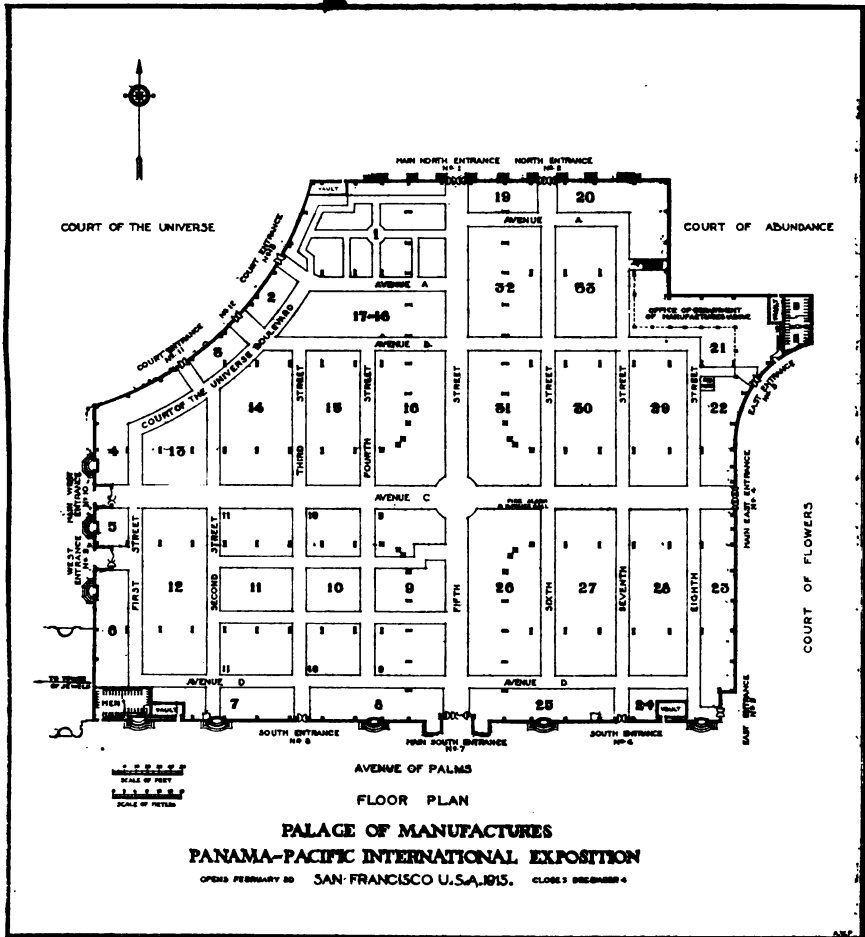
Laces, Embroidery and Trimmings.

**Industries Producing Wearing Apparel for
Men, Women and Children.**

**Furs and Skins, Fur Clothing; Leather, Boots
and Shoes.**

Various Industries Connected with Clothing.

Safety Appliances.



INTRODUCTION

Department of Manufactures

by
CHARLES H. GREEN, CHIEF.

The civilization of a nation is reflected by its manufactures. Science and industry, applied to natural resources, contribute to the development of mankind by lessening his burdens, allowing leisure for cultural pursuits with accumulative benefits affecting each succeeding generation.

The primary wealth of a nation lies in its natural resources. The increase of wealth through the transformation of raw material into finished articles of commerce in the United States alone in 1913 amounted to more than \$10,500,000,000. A further idea of the importance of manufacture is gained when the fact is recited that some 275,000 manufacturing concerns are interested in the display made at the Panama-Pacific International Exposition; that 6,000,000 wage-earners are on the payrolls of these establishments; and that approximately 100,000,000 consumers look to these industries for their supplies. The importance which manufacture assumes in the world's affairs is expressed in the number of exhibit palaces devoted to this use in the Panama-Pacific International Exposition. The Palace of Manufactures and the Palace of Varied Industries, containing the exhibits of the Department of Manufactures, adjoin the Tower of Jewels on the east, and facing the Avenue of Palms, form a quarter of the main group of Exhibit Palaces, the facade of each palace being of different design, to harmonize with the Court effect connecting the various palaces.

The interior construction is especially designed with regard to the requirements of exhibitors in the display of their products. The aisle plan is that of city blocks, all avenues running east and west; streets north and south.

The specific lines of trade represented in this mammoth display are manifold, covering hundreds of industries, including not only the goods one would find in the principal retail shops of a large city, but also everything that goes into the interior finish and decoration of public and private dwellings, including the plumbing, heating and ventilating, lighting, art wares, and certain forms of machinery.

The following classification, each item carrying numerous subdivisions, represents the general scope of products embraced in the Department of Manufactures and Varied Industries:

Stationery, Desk Accessories, Artists' Materials. Cutlery, Silversmiths' and Goldsmiths' Ware. Jewelry, Clock and Watch Making. Objects of Ornamental Design. Glass. Brushes, Fine Leather Articles, Fancy Articles and Basket Work. Traveling and Camping Articles. India Rubber and Gutta Percha Industries.

Hunting Equipment and Products of Hunting. Fishing Equipment and Products. Toys. Permanent Decoration and Fixed Furniture, Office and Household Furniture and Utilities. Mortuary Monuments and Undertakers' Furnishings. Hardware and Woodenware. Electro-Thermal Apparatus. Insulating Materials for Electricity. Paper Hanging. Carpets, Tapestries and Fabrics for Upholstery. Upholsterers' Decorations. Ceramics. Plumbing and Sanitary Materials. Glass and Crystal. Heating and Ventilating Apparatus and Processes. Gas in Various Phases. Lighting Methods and Apparatus. Textile Materials, Spinning and Rope Making. Equipment and Processes in Textile Manufacturing. Equipment and Processes for Finishing Textiles. Sewing Equipment and Processes. Threads and Cotton Fabrics. Threads and Fabrics of Flax, Hemp, etc. Cordage, Yarns and Fabrics of Animal Fibres. Silk and Silk Fabrics. Laces, Embroidery, Trimmings. Industries Producing Wearing Apparel. Furs and Skins, Fur Clothing. Leather, Boots and Shoes. Various Industries Connected with Clothing. Safety Appliances.

In the Palace of Manufactures proper, where the idea of utility controls, there are two great divisions; one inclusive of heating, hardware, glass, lighting and merchandise in woods and metals; in the other, clothing, textiles, etc. In the Palace of Varied Industries, where ornamentation of the beautiful controls, are installed the articles which add to use, such as the contents of the House Beautiful.

Of the total vast area embraced within the spacious confines of these great structures, 55 per cent of the floor space is given over to the exhibition of the products of American manufacturers, and 45 per cent to those of the foreign nations. The United States exhibits are arranged in industrial groups, while the foreign displays are classified according to nationality.

HOW TO LOCATE AN EXHIBIT

The Palace of Manufactures is laid out in blocks, which are consecutively numbered from 1 to 33, inclusive, as shown on the floor plan. The aisles are designated as streets (First to Eighth) running north to south, and as avenues (A to D), from east to west. To locate an exhibitor refer to the name, alphabetically arranged under the exhibit group to which each belongs in the official classification, and note the aisles location following each name. Street and Avenue signs are erected at their intersection on the corners of all blocks.

All Exhibits entered in this Catalogue are located in the Palace of Manufactures, **unless otherwise indicated** after the entry. The following are abbreviations used in this Catalogue to designate other Exhibit Palaces:

| | |
|----------------------------------|--------------|
| Fine Arts Palace..... | Fn. A. Pal. |
| Education Palace | Ed. Pal. |
| Liberal Arts Palace..... | Lb. A. Pal. |
| Manufactures Palace | Mfr. Pal. |
| Varied Industries Palace..... | V. I. Pal. |
| Machinery Palace | Mch. Pal. |
| Transportation Palace | Trns. Pal. |
| Agriculture Palace | Agr. Pal. |
| Food Products Palace..... | Fd. Pr. Pal. |
| Live Stock Palace..... | Lv. St. Pal. |
| Horticulture Palace | Hor. Pal. |
| Mines and Metallurgy Palace..... | Min. Pal. |

DEPARTMENT OF MANUFACTURES.

Official Classification of Exhibits

DEPARTMENT E

GROUP 44

STATIONERY, DESK ACCESSORIES, ARTISTS' MATERIALS

- Class 216. Equipment for and processes used in making or preparing stationery, account books, copy books, envelopes, bags, wrappers.
- Class 217. Made-up paper and card-board; ruled, bordered or ornamented paper, note paper, envelopes, pockets, bags; school copy books, memorandum books, note books, letter-copying books, account books, book covers; menu cards, playing cards, paper boxes, cases; packages of cigarette papers, etc.
- Class 218. Desk furnishings, inks, pens, pencils, penholders, crayon holders, wax and wafers, paper weights, ink stands, letter presses, etc.
- Class 219. Artists' materials for painting, architecture, sculpture, pyrography, and drawing; canvases, panels, crayons, brushes, hair pencils; mathematical instruments for architects, etchers, engravers, burners, sculptors; tracing papers and cloths; parchments; colors, varnishes, charcoals, pastels, stumps, lay figures, easels; color boxes and other artists' material not named above.

GROUP 45

CUTLERY

- Class 220. Special equipment for the manufacture, grinding and polishing of cutlery.
- Class 221. Table cutlery, pocket knives, knives with fixed blades.
- Class 222. Cutlery for gardens, and for various trades.
- Class 223. Scissors and work-box accessories.
- Class 224. Razors of all kinds.
- Class 225. Fine cutlery in polished steel.
- Class 226. Small silversmiths' ware.
- Class 227. Side arms of all kinds.

GROUP 46

SILVERSMITHS' AND GOLDSMITHS' WARE

(Appliances, Processes and Products.)

- Class 228. Special equipment for manufacture, hand tools; outfits for casting machinery (lathes, scales, etc.); outfits for electro-plating, etc. Methods of work.
- Class 229. Goldsmiths' and silversmiths' work for religious or common uses in gold, silver, bronze or other metal; plated ware; articles gilt or silver-plated by any process.
- Class 230. Enameled work; goldsmiths' enamel; enamels painted upon metal.

GROUP 47

JEWELRY

(Equipment, Processes and Products.)

- Class 231. Special equipment. Methods of work.
- Class 232. Fine jewelry; gold and silver jewelry; jewelry in platinum, aluminum, etc.; jewelry set with precious stones; jewelry in debased gold for exportation.
- Class 233. Lapidary work; diamond cutting; cutting of gems; engraving of fine stones; engraving of hard cameos and of shells.
- Class 234. Imitation lapidary work. Imitation of precious stones, pearls, etc.
- Class 235. Gilt jewelry; imitation jewelry in copper and other metals; steel jewelry; mourning jewelry in jet and glass; jewelry in coral, amber, mother-of-pearl, etc.

GROUP 48

CLOCK AND WATCH MAKING

(Equipment, Processes and Products.)

- Class 236. Special equipment for manufacturing clocks and watches; hand tools; machine tools (lathes and other tools); measuring instruments.
- Class 237. Preparation of various metals used by watch and clock makers; separate parts of watch and clock work; springs; watch cases in precious or common materials; holes and fittings in rubies or in other jewels; enameled or other dials, etc.
- Class 238. Clocks for churches and public buildings, time recorders.
- Class 239. Astronomical clocks. Marine chronometers.
- Class 240. Clocks moved by electricity, air or water.
- Class 241. Ornamental clocks and timekeepers; regulators; alarm clocks.
- Class 242. Watches, pocket chronometers; watchmen's time registers.
- Class 243. Metronomes, various recording instruments. Clepsydras and hour glasses.
- Class 244. Chimes connected with clock work.

GROUP 49

OBJECTS EXHIBITED MORE FOR THEIR ORNAMENTAL DESIGN THAN FOR THEIR UTILITY

- Class 245. Special designs and patterns in glass.
 Class 246. Special designs in earthenware, pottery or porcelain.
 Class 247. Special designs in metal.
 Class 248. Special designs in leather.
 Class 249. Special designs in wood.
 Class 250. Special designs in textiles.

GROUP 50

ORNAMENTAL PRODUCTIONS IN MARBLE, BRONZE, CAST IRON AND WROUGHT IRON

(Equipment, Processes, and Products.)

- Class 251. Special equipment for the manufacture of ornamental metal objects; types of foundries; patterns and moulds. Outfit for and specimens of repousse work; processes for mechanical reduction.
 Class 252. Reproductions of works of art in marble, stone, plaster, terra cotta, wax, etc. Ornamentally stamped and damascened metals.

GROUP 51

LEADED, STAINED AND MOSAIC GLASS

- Class 253. Glass for churches, public buildings and private dwellings. Specimens of various kinds of glass used for decorative windows. Special enamels.

GROUP 52

BRUSHES, FINE LEATHER ARTICLES, FANCY ARTICLES AND BASKET WORK

(Equipment, Processes and Products.)

- Class 254. Equipment and methods used in the manufacture of brushes, fine leather articles, fancy articles and basket work.
 Class 255. Brushes; toilet brushes designated as fine brushes; brushes for household, harness and stable use, etc., designated as coarse brushes; brushes for house painting, designated as paint brushes; leather brushes; brooms; floor brushes.
 Class 256. Fine leather goods; saccards, portmonnaies, portfolios, toilet cases, note book covers, cigar cases, small objects and fancy articles in skins; clasps for portmonnaies and handbags.
 Class 257. Fancy articles; work boxes and small fancy furniture; liquor cases, glove boxes, jewel cases; turned articles, engine turned, carved, engraved in ivory, tortoise shell, mother-of-pearl, etc., pipes and smokers' articles, snuff boxes; toilet and other combs in ivory, tortoise shell, horn, celluloid, boxwood, etc.; various articles in lacquer work, small bronzes.
 Class 258. Basket work; basket and hampers for common use; fancy baskets for confectioners, for household use, traveling, etc.

GROUP 53

ARTICLES FOR TRAVELING AND FOR CAMPING. INDIA RUBBER AND GUTTA PERCHA INDUSTRIES

- Class 259. Trunks, valises, bags, satchels, baskets, dressing and traveling cases; packing cases and boxes; snawl straps, etc. Locks and other fittings for trunks, valises, etc. Cushions. Alpenstocks, grapnels, parasols. Various requisites for travelers.
 Class 260. Portable equipment specially prepared for traveling and for scientific expeditions; outfits for geologists, mineralogists, naturalists, colonists, pioneers, explorers, etc.
 Class 261. Tents and accessories. Beds, hammocks, seats, folding chairs, and other camp furniture and equipment. Portable houses.
 Class 262. Tents and furniture of military types.
 Class 263. Equipment and methods used in the manufacture of India rubber and gutta percha goods.
 Class 264. Commercial products of the India rubber and gutta percha industry. Waterproof clothing and boots and shoes. Rubber floor covering. Substitutes for rubber.

GROUP 54

HUNTING EQUIPMENT AND PRODUCTS OF HUNTING

- Class 265. Sportsmen's and trappers' arms and accessories; sportsmen's ammunition.
 Class 266. Hunting equipment; appliances for training dogs.
 Class 267. Material, dress and equipment for games and sports. Sporting goods and supplies; tracks paraphernalia.
 Class 268. Skins and furs in the rough; skins prepared for the furrier. Taxidermists' work.
 Class 269. Horn, ivory, bone, tortoise shell.

GROUP 55

FISHING EQUIPMENT AND PRODUCTS

- Class 270. Floating appliances used in fishing. Nets, tackle, boats; devices and implements for sea fishing. Nets, traps and appliances for fresh water fishing.
 Class 271. Anglers' apparel, rods, reels and lines.
 Class 272. Machines and equipment for making nets.
 Class 273. Sea and fresh water pearls; pearl shells and mother-of-pearl; sponges, corals.

GROUP 56

TOYS

- Class 274. Equipment and processes used in the manufacture of toys.
- Class 275. Playthings: dolls, talking dolls and accessories, playthings in metal, dolls' dinner and tea services, children's watches, mechanical toys, arms and equipment for children, musical instruments, dolls' furniture, horses, animals, carts, toys in India rubber and in gold beaters' skin, scientific and educational toys. Games, Children's books.

GROUP 57

PERMANENT DECORATION AND FIXED FURNITURE FOR BUILDINGS AND DWELLINGS

- Class 276. Plans, drawings and models of interior decorations.
- Class 277. Carpentry; models of frame work, roof work, vaults, domes, wooden partitions, etc.
- Class 278. Ornamental joiner work; doors, windows, panels, inlaid floors, organ cases, choir stalls, etc.
- Class 279. Permanent decorations in marble, stone, plaster, papier-maché, carton pierre, etc.
- Class 280. Ornamental carvings and pyrographics.
- Class 281. Iron work and locksmiths' work applied to decoration; grill work and doors in cast or wrought iron; doors and balustrades in bronze; roof decoration in lead, copper, zinc; dormers, spires, finials, vanes; crest and ridge work.
- Class 282. Decorative paintings on stone, wood, metal, canvas or other surfaces. Signs of all varieties.
- Class 283. Mosaic decorations in stone or marble for flooring; enameled mosaic for walls and vaulted surfaces.
- Class 284. Various applications of ceramics to the permanent decoration of public buildings and dwellings. (See also Ceramics.)

GROUP 58

OFFICE AND HOUSEHOLD FURNITURE AND UTILITIES

- Class 285. Sideboards, bookcases, tables, stands, beds, mirrors, desks, files, filing systems, cabinets, wardrobes, chiffoniers, chairs, settees, couches and lounges, billiard tables, etc.; vacuum cleaners, carpet sweepers, washing machines, etc.

GROUP 59

MORTUARY MONUMENTS AND UNDERTAKERS' FURNISHINGS

- Class 286. Marble, stone and metal monuments; mausoleums and fittings.
- Class 287. Coffins, caskets and undertakers' furnishing goods.

GROUP 60

HARDWARE AND WOODENWARE

- Class 288. Special tools (not included in the class of machine tools) used by smiths, farriers, bolt makers, screw cutters, wire drawers, nail makers, buckle makers, chain makers, copper-smiths, tin-smiths, edge tool makers, iron founders, ironmongers, locksmiths, model makers, etc.
- Class 289. Hardware not otherwise provided for, made of plates, forgings, or castings. Fittings, cocks, taps, etc. Bells; buckles; machine-made bronzes; shoes for horses and for other animals; flatirons, etc.
- Class 290. Bolts, nuts and screws for wood or metal.
- Class 291. Products of nail making and wire drawing; nails, brads, tacks, staples; wire ropes, barbed wire, wire fencing, wire cloth, and wire gauze; wire springs; rings and hooks.
- Class 292. Chain making products and kindred industries.
- Class 293. Metal plates, flanged, stamped, decorated, perforated, etc., builders' work in sheet metals.
- Class 294. Enameled plates and castings for buildings, household and general use.
- Class 295. Hollow ware (cast or pressed) plain, polished, japanned, enameled, granitized or porcelain lined. Metal household utensils.
- Class 296. Articles from the re-manufacture of sheet metals, produced by cutting, drawing, stamping, spinning; including caps, ferrules, small boxes, cans, metal vessels, lamp shades, etc.
- Class 297. Woodworking hand tools; axes, adzes, hatches, chisels, planes, boring tools, saws, hammers, etc.
- Class 298. Builders' and upholsterers' hardware: fittings and fastenings for doors, windows, etc.; casters, clamps, brackets, pulls, etc.
- Class 299. Safes, safety vaults and accessories; safe locks.
- Class 300. Metal work (cast, wrought, or wire) for stair railings, balusters, gratings, balconies, grill work, etc.
- Class 301. Metal work (plated, enameled, etc.) for bedsteads, gas and electric light fixtures, store fixtures, cash carriers, etc.
- Class 302. Summer houses and pavilions in metal; lawn bird cages, aviaries, awnings, awning fittings, verandas.
- Class 303. Metal shutters for windows, doors; screens and Venetian blinds.

- Class 304. Various products of exact rolling or of beating of gold, silver and tin; metallic foils.
- Class 305. Various hardware products of gilding, silver-plating, copper-plating, bronzing, galvanizing, nickel-plating, electro-plating.
- Class 306. Woodenware for household use. Miscellaneous manufactured articles of wood not otherwise classified. Baskets and boxes of split wood.

GROUP 61

ELECTRO-THERMAL APPARATUS

- Class 307. Electric cooking devices, clothes pressing irons, air heaters, etc.

GROUP 62

INSULATING MATERIALS FOR ELECTRICITY

- Class 308. Insulating materials of mica, glass, rubber, porcelain and other substances; insulating compounds and fabrics. (For devices made of insulating materials see Class 510.)

GROUP 63

PAPER HANGING

(Raw Materials, Equipment, Processes and Products.)

- Class 309. Special raw materials used in the manufacture of wall paper.
- Class 310. Machinery for printing wall paper and fancy papers. Machines for engraving printing rollers. Flat wood blocks or copper plates, engraved by hand. Drawing pens. Machines for varnishing, glazing, calendering, embossing, gilding, flocking, rolling and cutting.
- Class 311. Special brushes and cloths used in the laying of wall paper.
- Class 312. Stained papers, printed papers. Flocked, marbled, veined, gilt, enameled and glazed paper. Imitations of wood, leather and tapestry.

GROUP 64

CARPETS, TAPESTRIES AND FABRICS FOR UPHOLSTERY

(Materials, Equipment, Methods and Products.)

- Class 313. Special machinery for the manufacture of carpets and tapestry; high warp looms, low warp looms, bobbin-winders, etc.
- Class 314. Carpets; moquette, tapestry, brussels, or velvet. Felt carpets, mats, etc.
- Class 315. Furniture and wall covering materials in silk, wool, cotton, linen, jute, ramie, grass, plain, mixed, broaded, printed, embroidered. Horse-hair cloths, vegetable leather, moleskin, etc. Leather for hangings and for covering furniture. Oil cloths, linoleums and similar floor coverings.

GROUP 65

UPHOLSTERS' DECORATIONS

- Class 316. Decoration for public and private festivals, for religious services, etc. Bunting, flags.
- Class 317. Bed furnishings; upholstered chairs; canopies, curtains, window shades and fittings; hangings of cloth or tapestry; frames, etc.

GROUP 66

CERAMICS

(Raw Materials, Equipment, Processes and Products.)

- Class 318. Raw materials, particularly chemical products used in ceramic industries.
- Class 319. Equipment and methods used in the manufacture of earthenware; machines for turning, pressing and moulding earthenware; furnaces, kilns, muffles, and baking apparatus for earthenware; appliances for preparing and grinding enamels.
- Class 320. Various porcelains.
- Class 321. Bisque of porcelain and of earthenware.
- Class 322. Earthenware of white or colored body, with transparent or tin glazes. Faience.
- Class 323. Earthenware and terra cotta for agricultural purposes.
- Class 324. Stoneware, plain and decorated.
- Class 325. Tiles, plain, encaustic and decorated; mosaics, tiles and bricks for floors. (See also Group 153.)
- Class 326. Fire-proof materials. (See also Group 153.)
- Class 327. Statuettes, groups and ornaments in terra cotta.
- Class 328. Enamels applied to ceramics.
- Class 329. Borders for fireplaces and mantels.

GROUP 67

PLUMBING AND SANITARY MATERIALS

- Class 330. Sanitary earthenware; bathing apparatus and attachments, lavatory fittings, laundry tubs; basins, cocks, draws, etc.; sewerage apparatus, plumbers' appliances.

**GROUP 66
GLASS AND CRYSTAL**

(Raw Materials, Equipment, Processes and Products.)

- Class 331. Raw materials and particularly chemical products used in the manufacture of glass.
- Class 332. Equipment and processes used in the manufacture of glass and crystal; equipment for the preparation of raw materials; furnaces; blowing apparatus; moulds; lathes for engraving and shaping; apparatus for cutting and for casting, etc.
- Class 333. Window glass, white or colored, fluted, curved, enameled, etc. Glass for photography.
- Class 334. Plate glass, rough or polished. Silvered glass. Glass for pavements. Mirrors for projections. Glass with surface in relief.
- Class 335. Table glass; glass crystal, white or colored, cut or engraved; glassware and glass apparatus for scientific uses.
- Class 336. Ornamental glass. Fused quartz products.
- Class 337. Bottles.
- Class 338. Enamels; their application to glass.
- Class 339. Mosaics of glass. (Architectural mosaics excepted.)
- Class 340. Imitation of precious stones.
- Class 341. Watch glasses.
- Class 342. Glass used for optical purposes; spectacle glass. Lens grinding machinery.

GROUP 69

APPARATUS AND PROCESSES FOR HEATING AND VENTILATION

- Class 343. Plans and models showing methods of heating buildings, including public buildings, factories, dwelling houses. Plans and models for sanitation and ventilation of kitchens and small living rooms.
- Class 344. Methods of conveying and distributing steam, hot water and hot air, used separately or in combination.
- Class 345. Plans, methods and equipment for natural ventilation; ventilation by exhaustion; updraft ventilators; ventilators operated by wind or by difference of temperature; ventilation by mechanical means and their combination.
- Class 346. Stoves, furnaces and boilers, peculiar to the various systems of hot air, hot water and steam heating. Heating stoves using wood, coal, gas or other fuel. Fittings for same.
- Class 347. Radiators of heat used in connection with heating systems.
- Class 348. Kitchen ranges and fittings, steam cooking ranges, hot water boilers, combined cooking and heating stoves, special forms of cooking stoves and apparatus. Ranges and other kitchen equipment for preparing food in large quantities. Cooking utensils.
- Class 349. Accessories to heating and ventilation. Measuring and registering apparatus; ordinary and self-registering thermometers, pyrometers, anemometers; regulators of temperature, of draft, of pressure; automatic drip cocks and air cocks, cocks especially fitted for heating apparatus, electric thermostats.
- Class 350. Chimney fittings. Dampers for chimneys, fire stoppers, special sheet iron chimney pots. Openings for hot air and ventilation; gratings and plates.
- Class 351. Stoves and chimneys in earthenware. Fireplace and chimney pottery. Earthenware and refractory materials for heaters, stoves and chimneys.
- Class 352. Hearth furnishings; fire lighters; ash sifters; utensils for cleaning and repairing heaters and stoves; other accessories.

GROUP 70

MANUFACTURE, DISTRIBUTION AND USES OF GAS FOR LIGHT AND FUEL

- Class 353. Manufacture of gas: processes and apparatus for manufacturing gas from coal; processes and apparatus for manufacturing water gas; processes and apparatus for manufacturing oil gas; apparatus and materials for the physical and chemical cleansing of gas; apparatus for testing crude materials and manufactured gas.
- Class 354. Distribution of gas: pipe, pipe fittings, valves, pressure-regulating apparatus; tools used in laying mains or services; meters and gas measuring apparatus; appliances for the transmission of gas, including exhausters and compressors. (See Class 404.)
- Class 355. Uses of gas: incandescent gas lamps and mantels, gas burners, and appliances for gas lighting; appliances for cooking by gas; appliances for heating by gas, including water heaters and hot air furnaces; appliances for utilizing gas for industrial purposes.

GROUP 71

APPARATUS AND METHODS FOR LIGHTING, NOT OTHERWISE CLASSIFIED

- Class 356. Lighting by means of vegetable or mineral oils, petroleum, shale heavy oil, heavy oil sprayed. Lamps, burners, wicks, lamp chimneys, and other accessories. Apparatus for domestic, industrial and public lighting.
- Class 357. Lighting by acetylene gas or vaporized gasoline, alcohol, etc. Lamps, burners, chimneys, and other accessories and apparatus for domestic, industrial and public lighting.
- Class 358. Accessories to lighting: lighters, glasses, globes, shades, reflectors, screens, smoke consumers, chandeliers and fixtures.

GROUP 72

TEXTILE MATERIALS, SPINNING AND ROPE MAKING*

- Class 359. Machinery and apparatus used in preparing and spinning textile materials. Specimens of materials showing progress of work.
- Class 350. Detached parts of spinning machinery and special machines for their manufacture.
- Class 361. Apparatus used in subsequent operations; spooling, winding, twisting, throwing. Mechanical finishing of goods.
- Class 362. Apparatus for sorting, testing and registering. Apparatus for perfecting. Equipment for making cordage.

GROUP 73

EQUIPMENT AND PROCESSES USED IN THE MANUFACTURE OF TEXTILE FABRICS*

*Textile machinery not in operation as part of a process exhibit will be installed in Machinery Hall.

- Class 363. Apparatus used in operations preliminary to weaving; machines for warping, cop winders. Card preparing machines.
- Class 364. Hand and power looms for weaving plain cloths. Looms for weaving brocaded and embroidered fabrics, box looms.
- Class 365. Knitting machinery for hosiery. Machinery for making lace and tulle. Machinery for making trimmings.

GROUP 74

EQUIPMENT AND PROCESSES USED IN BLEACHING, DYEING, PRINTING AND FINISHING TEXTILES IN THEIR VARIOUS STAGES

- Class 366. Apparatus for singeing, brushing and shearing textile fabrics.
- Class 367. Apparatus for washing in lye, scouring, washing, drying and moistening various textile materials, whether matted, combed in thread or in web.
- Class 368. Apparatus for boiling and staining dye stuffs and stuffs for thickening fabrics.
- Class 369. Equipment for engraving in relief, or in incised work patterns, for printing on textiles.
- Class 370. Machines for starching, dyeing or printing. Apparatus for steaming.
- Class 371. Machinery of all kinds for finishing goods, for fulling, and for teaselling; tenter-frames, calenders, machines for glazing, watering, embossing, beetling. Machines for measuring, folding, etc.
- Class 372. Appliances used for dyeing silks, for beating, shaking up, pinning out, lustering, etc.
- Class 373. Sweating boxes for thickening, apparatus for spotting, apparatus for bleaching by electricity.
- Class 374. Equipment and processes for laundry work. Washing and rinsing, bluing, drying, bleaching, ironing and finishing.
- Class 375. Industry of the dyers and scourers; dry cleaning by benzine and by other substances; cleaning by wet process; dyeing, pressing.
- Class 376. Specimens of textile materials bleached or dyed before spinning.
- Class 377. Specimens of threads or yarns of cotton, linen, wool, silk, etc., pure or mixed, bleached, dyed or mottled.
- Class 378. Specimens of textile fabrics bleached, dyed or printed.
- Class 379. Specimens of threads, yarns or fabrics which have been sized.
- Class 380. Specimens of chemical thickening of textile materials before they have been spun or woven.

GROUP 75

EQUIPMENT AND PROCESSES USED IN SEWING AND MAKING WEARING APPAREL

- Class 381. Common implements used in needle work.
- Class 382. Machines for cutting cloth, skins and leathers.
- Class 383. Machines for sewing, stitching, hemming, embroidering, etc.
- Class 384. Machines for making button-holes; for sewing gloves, leather, etc.; for plaiting straw.
- Class 385. Tailors' geese, flatirons and equipment.
- Class 386. Busts and figures for trying on garments.
- Class 387. Machines for plaiting straw for hats and making hats of straw, felt, etc.

GROUP 76

THREADS AND FABRICS OF COTTON

- Class 388. Cotton prepared and spun.
- Class 389. Fabrics of cotton, pure or mixed, plain or figured, unbleached, dyed or printed.
- Class 390. Cotton velvets.
- Class 391. Cotton ribbons.
- Class 392. Counterpanes.

GROUP 77

THREADS AND FABRICS OF FLAX, HEMP, ETC.; CORDAGE

- Class 393. Thread of flax, hemp, jute, ramie and other vegetable fibers.
 Class 394. Plain and figured canvas. Ticking. Damask linen. Cambrics and lawns. Plain and fancy handkerchiefs.
 Class 395. Fabrics of flax, or hemp, mixed with cotton or silk.
 Class 396. Fabrics and vegetable fibres other than cotton, flax, hemp, jute or ramie.
 Class 397. Cordage, cables, rope, twine, etc.

GROUP 78

YARNS AND FABRICS OF ANIMAL FIBERS

- Class 398. Combed animal fibers. Yarn of combed animal fibers.
 Class 399. Carded animal fiber. Rovings unbleached or dyed. Yarn of carded animal fibers.
 Class 400. Cloths of combed or carded animal fibers.
 Class 401. Cloths for ladies' wear, made from animal fiber.
 Class 402. Dress goods of combed or carded animal fibers, mixed with cotton or silk.
 Class 403. Muslin delaine, tweeds, merinos, china-satins, serges, mohairs, etc.
 Class 404. Fabrics of carded animal fibers, not fullled or slightly fullled; flannels, tartans, molletons, etc.
 Class 405. Knitted stuffs in combed or carded animal fibers.
 Class 406. Shawls of animal fibers, pure or mixed. Cashmere shawls.
 Class 407. Ribbons and braids of animal fibers, pure or mixed with cotton, flax, silk or floss silk.
 Class 408. Fabrics of hair, pure or mixed.
 Class 409. Blankets.
 Class 410. Felts of animal fibers for carpets, hats, boots and shoes, etc.

GROUP 79

SILK AND FABRICS OF SILK

- Class 411. Silk raw, thrown, twisted.
 Class 412. Floss silk and silk waste.
 Class 413. Threads of floss silk and silk waste.
 Class 414. Artificial silks.
 Class 415. Fabrics of pure silk, silk floss, or silk waste; fabrics of silk or silk floss mixed with gold, silver, wool, cotton, thread, etc., plain, figured, or brocaded, unbleached, dyed or printed.
 Class 416. Velvets and plushes.
 Class 417. Ribbons of silk, or silk floss, pure or mixed.
 Class 418. Shawls of silk or silk floss, pure or mixed.

GROUP 80

LACES, EMBROIDERY AND TRIMMINGS

- Class 419. Lace made by hand; laces, blonde or guipure, wrought on pillow or with the needle or crochet, made of flax, cotton, silk, wool, gold, silver or other threads.
 Class 420. Laces made by machinery; tulle, plain or embroidered; imitation lace, blonde and guipure, in thread of every kind.
 Class 421. Embroidery made by hand; embroidery by needle or crochet with thread of every kind, on all kinds of grounds (fabric, net, tulle, skin, etc.) including needle work upon canvas as well as embroidery appliqué, or ornamented with gems, pearls, jet, spangles of metal, or other material, feathers, shells, etc.
 Class 422. Embroidery made by machinery, with the foundation preserved, or with the foundation cut or burned away.
 Class 423. Trimmings: galloons, lace or braids, fringes, tassels, all kinds of appliqué and ornamental work, hand-made or woven, for millinery or garments, ecclesiastical vestments, civil or military uniforms; for furniture, saddlery, carriages, etc. Threads and plates of metal, gold or silver, real or imitation, spangles, chenilles, and all other articles used for trimmings.
 Class 424. Church embroidery; church ornaments and linen; altar cloths, banners and other objects for religious ceremonies in fabrics, ornamented with lace, embroideries and trimmings.
 Class 425. Curtains with lace, guipure, or embroidery, upon tulle or fabrics; blinds, screens, portieres, lambrequins, and other draperies, ornamented with lace, embroidery and trimmings.

GROUP 81

INDUSTRIES PRODUCING WEARING APPAREL FOR MEN, WOMEN AND CHILDREN

- Class 426. Clothing to measure for men and boys; ordinary costumes, suits for hunting and riding, leather breeches and similar articles, suits for gymnastic uses and games, military and civil uniforms, campaign clothing of special types, robes and costumes for magistrates, members of the bar, professors, ecclesiastics, etc., liveries, various costumes for children.
 Class 427. Clothing, ready made for men and boys.
 Class 428. Clothing to measure for women and girls; dresses, vests, jackets, cloaks (made by ladies' tailors, dress makers, or cloak makers), riding habits, sporting suits.
 Class 429. Clothing ready made for women and girls. Patterns.

GROUP 82

FURS AND SKINS, FUR CLOTHING; LEATHER, BOOTS AND SHOES

- Class 430. Furs and skins, dressed and tanned.
- Class 431. Fur clothing, caps, hats, hoods, gloves, boots, etc.
- Class 432. Fur mats and robes; fur trimmings.
- Class 433. Leather in every variety; tanned, curried, enameled, patent leather, wash leather, etc.
- Class 434. Machines for cutting and preparing parts of boots or shoes; machines for sewing boots or shoes; machines for lasting, pegging, nailing, screwing.
- Class 435. Boots and shoes, for men, women and children; boots, bootees, shoes, slippers, pumps, overshoes, soles, accessories, etc.; gaiters.
- Class 436. Military and naval campaign footwear.
- Class 437. Gloves made of skins.

GROUP 83

VARIOUS INDUSTRIES CONNECTED WITH CLOTHING

- Class 438. Hats; hats of felt, wool, straw, or silk; caps; trimmings for hats.
- Class 439. Artificial flowers for dressing the hair, for dress, and for all other uses. Feathers. Millinery. Hair: coiffures, wigs and switches.
- Class 440. Shirts and underclothing for men, women and children.
- Class 441. Hosiery and gloves of cotton, wool, silk and floss silk, etc., knitted hosiery; cravats and neck-ties.
- Class 442. Corsets.
- Class 443. Elastic goods, suspenders, garters, belts.
- Class 444. Canes, whips, riding whips, sun-shades, parasols, umbrellas.
- Class 445. Buttons: buttons of china, metal, cloth and silk, mother-of-pearl, and other shell, ivory-nut, horn, bone, papier-maché, etc.
- Class 446. Buckles, eyelets, hooks and eyes, pins, needles, etc.
- Class 447. Fans and handscreens.

GROUP 84

SAFETY APPLIANCES

- Class 448. Safety appliances and devices for protection of those engaged in manufacturing work and processes, not exhibited in connection with machines. (See also Classes 472 and 476.)

GROUP 44

Westinghouse Electric & Manufacturing Co., Pittsburgh, Pa. Electric Eraser Outfits. Mch., 4th St., bet. Avs. E & F., 2nd and 4th St., bet. Avs. C & D.

GROUP 45

OUTLETRY

Simmons Hardware Company, St. Louis, Mo., Manufacturers. 5th St. cor. Av. C. Manufacturers and distributors of Keen Kutter Tools, Cutlery and Hardware. 80,000 items catalogue.

GROUP 52

BRUSHES, FINE LEATHER ARTICLES, FANCY ARTICLES AND BASKET WORK

Bissell Carpet Sweeper Co., The, Gd. Rapids, Mich. Cpt. Swprs. Mfr., 8th St. & Av. D. Cassard, Hamilton, Baltimore, Md. Broom & Brush Sewing Mches. Mfr., 8th St. & Av. D. Hoag Duster Company, The, Monticello, Ia. Feather Dusters. Mfr., 8th St. & Av. D. Levenson Company, San Francisco, Cal. Brooms and Brushes. Mfr., 8th St. & Av. D.

Malm, C. A. & Co., S. F., Cal. Mfrs 7th St., bet. Avs. B&C. Portfolios, toilet cases, etc. National Veneer Products Company, Mishawaka, Ind. Bags, Suitcases, etc. Mfr., Av. B, cor. 8th St. "Indestructo" Sanitary Hampers.

O-So-Ery Mop Co., Detroit, Mich. Polish mops, dustless dusters. Mfr., 7th St., cor. Av. D. Ox Fibre Brush Co., Frederick, Md. Brushes. Mfr., 8th St. & Av. D.

Reese, Fred W., Paris, Ill. Broom winding & trimming machines. Mfr., 8th St. & Av. D. Wizard Products Company, Chicago, Ill. Mops, dusters, brushes. Mfr., 8th St. & Av. D.

GROUP 53

ARTICLES FOR TRAVELING AND FOR CAMPING. INDIA RUBBER AND GUTTA PERCHA INDUSTRIES

Ceresit Waterproofing Co., Chicago, Ill. Waterproofing materials. Mch. Pal., 5th St. & Av. I. Parrott & Co., S. F., Coast Representative. See ad on front cover of Machinery Catalogue.

Graton & Knight Mfg. Co., Worcester, Mass. Trunk and suitcase accessories. Block 13, Palace of Machinery.

Hartmann Trunk Co., The, Racine, Wis. Mfr. Av. B, cor. 7th St. Trunks, etc.

Malm, C. A. & Co., San Francisco, Cal. Mfr., 7th St., bet. Avs. B & C. Trunks, etc.

National Veneer Products Company, Mishawaka, Ind. Trunks, etc. Mfr., Av. B, cor. 8th St. "Indestructo" trunks, luggage and Veneer specialties. Traveling bags, suitcases; N. V. P. trunks.

Union Oil Company of California, San Francisco, Cal. Min. Pal., 6th St. & Av. B. Asphalt as rubber substitute.

Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Trans. Pal., 5th St. & Av. C. Vulcanizer.

GROUP 54

HUNTING EQUIPMENT AND PRODUCTS OF HUNTING

Brunswick-Balke-Collender Co., The, of California, S. F., Cal. Mfr., Av. A, cor. 6th St.

Hercules Powder Company, San Francisco, Cal. Explosives. Min. Pal., Av. B & 7th St. Black sporting powder. Smokeless sporting powder. See exhibit in Section 30, in Palace of Mines & Metallurgy.

National Veneer Products Company, Mishawaka, Ind. Trunks, etc. Mfr., Av. B, cor. 8th St. "Indestructo" Golf Bags.

Remington Arms-Union Metallic Cartridge Co., Bridgeport, Conn. Mfr. Av. C, cor. 7th. Remington Arms.

Winchester Repeating Arms Co., New Haven, Conn. Mfr., bet. Avs. C & D, 7th St. Sportsman's arms & ammunition.

GROUP 55

FISHING EQUIPMENT AND PRODUCTS

Owen Bucket Co., Cleveland, Ohio. Clam shell buckets. Mch. Pal., 5th St. & Av. I. Parrott & Co., S. F., Cal., Representatives. See ad on front cover of Machinery Catalogue.

GROUP 57

PERMANENT DECORATION AND FIXED FURNITURE FOR BUILDINGS AND DWELLINGS

National Veneer Products Company, Mishawaka, Ind. Veneer panels. Mfr., Av. B, cor. 8th.

Paraffine Paint Company, The, San Francisco, Cal. Roofing Felt. Mines & Metallurgy, Av. B & 7th St. Imitation of wood; floor covering. Deadening felt, roofing felt.

GROUP 58

OFFICE AND HOUSEHOLD FURNITURE AND UTILITIES

American Radiator Co., Chicago, Ill. Mfr., Av. D & 6th St. Vacuum Cleaners. The Arco Wand.

Bissell Carpet Sweeper Co., The, Gd. Rapids, Mich. Mfr. 8th St. & Av. D. Suction Clnrs. Brunswick-Balke-Collender Co., The, of Calif., S. F., Cal. Mfr. Av. A, cor. 6th St.

Brunswick-Balke-Collender Company, The, of California. Mfr., Av. A, cor. 6th St. Billiard supplies, billiard and pocket billiard tables; bowling alleys and supplies; bar, cigar, and soda counters; Backus Ten-pin Setting Machines.

Continental Bedding Manufacturing Co., S. F., Cal. Mfr., 5th, bet. Avs. B & C. Library furniture.

Doten-Dunton Desk Co., Cambridge, Mass. Mfr., 5th St., Av. A & 6th St. Commercial furniture.

Gunn Furniture Co., The, Grand Rapids, Mich. Mfr. Av. A & 6th St. Sectional bookcases.

Hartman Trunk Co., The, Racine, Wis. Mfr. Av. B, cor. 7th. Hartman Wardrobe Spec.

Home Washing Machine Co., Brooklyn, N. Y. Washing machines. Mch. 1st St. & Av. D.

Hoover Suction Sweeper Co., The, New Berlin, Ohio. Suction Sweepers. Mfr., 8th St., bet. Avs. B & C. San Francisco Representative, W. A. Hawley, Office, 320 Market St.

Innovation Electric Co., N. Y. Portable & suction cleaners. Mch. 1st St. & Av. D.

Karpen, S. & Bros., Chicago, Ill. Mfr. 5th St., cor. Av. A. Upholstered Furniture.

Kewanee Private Utilities Company, Kewanee, Ill. Vacuum Clnrs. Mch., 1st & 2nd Sts. & Av. E.

Marland, W. J., Oakland, Cal. Washing Machines. Mch. Coll. Exh. 1st St. & Av. D.

Peck & Hills Furniture Co., Chicago, Ill. Home Furnishings. Mfr., 5th St., bet. Avs. A & B. Branch offices in New York, San Francisco, Oakland, Los Angeles and Denver.

Singer Sewing Machine Co., New York, N. Y. Household Furniture. 1st St., Av. D, 2nd St. & Av. E, V. I. Pal., Sewing Machines and supplies.

Spencer Turbine Cleaner Co., The, Hartford, Conn. Vacuum cleaning apparatus. Mfr. 7th St., Av. B & 8th St.

Van Dorn Iron Wks. Co., Cleveland, O. Metal Furniture. Min. Pal. Com. with U. S. Steel Corp. Exhibit.

"1900" Washer Co., The, Binghamton, N. Y. Washing Machines. Mfr. 8th St. & Av. D.

GROUP 60

HARDWARE AND WOODENWARE

American Pulley Co., The, Philadelphia, Pa. Mch. Pal., 4th St. & Av. L. Pressed metal sash pulleys; miscellaneous pressed and drawn metal shapes; sash pulleys.

Am. Bridges Co., Pittsburg, Pa. Nuts, bolts, clevises, etc. Min. Pal.

Am. Sheet & Tin Plate Co., Pittsburgh, Pa. Steel roofing & siding sheets. Min. Pal.

Am. Steel & Wire Co., Chicago, Ill. Fencing, nails, wire products, horseshoes. Min. Pal.

Atkins, E. C. & Co., Indianapolis, Ind. Saws. Mfr. 5th St., bet. Avs. C & D.

Bliss Company, E. W., Brooklyn, N. Y. Steel pinions. Mch., 3rd St. & Avs. F & G.

Broderick & Bascom Rope Co., St. Louis, Mo. Wire Rope. Mfr. Av. C, cor. 6th St. Yellow Strand "Powersteel" Rope.

California Redwood Burl Co., Eureka, Cal. V. I., Av. B, cor. 3rd St. Novelities.

Disston, Henry & Sons, Inc., Philadelphia, Pa. Mfr. Av. C, cor. 6th St. Tools.

Graton & Knight Mfg. Co., Worcester, Mass. Belt Makers' Tools. Block 13, Palace of Machinery.

Hermann Safe Co., The, San Francisco, Cal. Mfr., 6th St., bet. Avs. C & D. Safes.

Lukensheimer Co., The, Cincinnati, O. Pal. of Machinery. 1st St. & Av. G. Ground Key Work.

Maurer Bros. Co., Brooklyn, N. Y. Mfr. Av. D, bet. 6th & 7th Sts. Tin roofing.

Mitts & Merrill, Saginaw, Michigan. Mfr. 6th St., bet. Avs. C & D. A giant key seater made in eight sizes for cutting key seats in all sizes of holes, from 1-2 inch up. Key seats ranging in width from 1-16 to 4 inches wide.

National Tube Co., Pittsburgh, Pa. Seamless Tube, Exh. & Photos. Mines Palace.

Niszcara Mac'h. & Tool Wks., Buffalo, N. Y. Sheet metal workers' tools. Mch., 3rd & G2.

Oster Manufacturing Co., The, Cleveland, O. Stocks & Dies. Mch. 4th St. & Av. C-2.

Owen Bucket Co., Cleveland, O. Clam shell buckets. Mch. Pal., 5th St. & Av. I. Parrott & Co., S. F. Cal., Repres. See ad on front cover of Machinery Catalogue.

Simmons Hardware Company, St. Louis, Mo. Mfr., 5th St., cor. Av. C. Manufacturers and distributors of Keen Kutter Tools, Cutlery and Hardware. 80,000 items cataloged.

Simonds Manufacturing Co., Fitchburg, Mass. Mfr., 6th St., bet. Avs. C & D. Tools.

Stenley Works, The, New Britain, Conn. Shelf hardware. Mfr., 6th St., bet. Avs. C & D. Wrought builders & shelf hardware. Box strapping and cold-rolled strip steel.

Universal Caster & Foundry Co., New York, N. Y. Mfrs. 6th St., bet. Avs. C & D.

Wagner Extension Ladder Co., Stockton, Cal. Extension Ladders. Mfr. 8th St. & Av. D.

Wells Brothers Company, Greenfield, Mass. Mfr., 5th St., Av. D & 6th St. Hardware.

GROUP 61

ELECTRO-THERMAL APPARATUS

General Electric Co., Schenectady, N. Y. Electric cooking devices. 7th St., Av. B & 8th St.

Marland, W. J., Oakland, Cal. Electro-Thermal Appliances Coll. Exh. Mch. 1st & Av. D.

Slaughter Co., W. E., Chicago, Ill. Electro-Thermal Appliances. Mch. 1st St. & Av. D.

Westinghouse Electric & Manufacturing Company, Pittsburg, Pa. Mch. Pal., 2nd St. & Av. C2. Electric Heating Devices. Sad irons, laundry irons, toaster stoves, disc stoves, chafing dishes, percolators. Samovars, saute pans, frying pans, air heaters,

Cozy Glow and luminous radiators. Electrotherms, curling irons, disc heaters, Bayonet heaters.

GROUP 62

INSULATING MATERIALS FOR ELECTRICITY

General Electric Co., Schenectady, N. Y. Insulating Material, Fibrox. 7th St., Av. B & 8th St.

Paraffine Paint Co., The, San Francisco. Pal. of Mines & Metallurgy. Av. B & 7th St. Insulating Tapes & Compounds.

Standard Underground Cable Co., Pittsburgh, Pa. Elec. Ins. Mat. Mch. 3rd St. & Av. D.

Union Oil Company of California, San Francisco. Min. Pal., 6th St. & Av. B. Asphalt for insulating.

Westinghouse Electric & Manufacturing Company, Pittsburg, Pa. Trns. Palace, 5th St. & Av. C. Insulating Material.

GROUP 64

CARPETS, TAPESTRIES AND FABRICS FOR UPHOLSTERY

Crex Carpet Co., New York, N. Y. Crex Covering. Mfr. Av. A, cor. 7th St.

Lackawanna Leather Co., Hackettstown, N. J. Leather. Mfr., 7th St., bet. Avs. B & C. Spanish and Morocco Upholstery Leather.

GROUP 65

UPHOLSTERERS DECORATIONS

Continental Bedding Manufacturing Co., S. F., Cal. Mattresses & bedding. 5th St., bet. Avs. B & D.

GROUP 67

PLUMBING AND SANITARY MATERIALS

Crawe Co., Chicago, Ill. Plumbing Materials. Mfr. Av. C, cor. 7th St.

Simonds Mfg. Co., Fitchburg, Mass. Steel Discs. Mfr. 6th St., bet. Avs. C & D.

GROUP 69

APPARATUS AND PROCESSES FOR HEATING AND VENTILATION

American Radiator Co., Chicago, Ill. Mfr. Av. D, bet. 5th & 7th Sts. The Ideal Boilers. The American Heat Radiators. Working Exhibit of Ideal Boilers and American Radiators in Horticultural Building. This building is heated entirely by our system. Inspection invited at Power Plant in Horticultural Gardens.

Am. Sheet & Tin Plate Co., Pittsburgh, Pa. Stove & Range Sheets. Mines Palace.

Bristol Co., The, Waterbury, Conn. Recording Thermometers & Pyrometers. Mch. 2nd St. & Av. D.

Cleveland Foundry Co., The, Cleveland, O. Mfr., Av. D, bet. 5th & 6th Sts. Manufacturers of oil cooking stoves, oil heating stoves and cooking utensils. Perfection smokeless oil heaters. New Perfection oil cooking stoves. New Perfection fireless oil cooking stoves. Cabinets for New Perfection oil stoves. New Perfection yacht stoves. New Perfection water heater. New Perfection broiler. New Perfection toaster. New Perfection pancake griddle. New Perfection sadiron heater. New Perfection steel oven. The skill and experience of the world's largest manufacturer of oil burning devices is back of the Perfection line, the best materials, careful workmanship, standardized methods, constant inspection. The result—Perfection products give universal satisfaction and last indefinitely.

Fess System Co., Inc., S. F., Cal. Burners for Heaters. Mch. 5th St. & Av. F.

General Electric Co., Schenectady, N. Y. Electric Air Heater. 7th St. & Av. B & 8th St.

GROUP 69

Industrial Instrument Co., The, Foxboro, Mass. Recording Thermometers & Pyrometers. Mch. 3rd St. & Av. C-2.
Lukenheimer Co., The, Cincinnati, O. Pal. of Mch. 1st St. & Av. G. Valves for steam use; Valves; Miscellaneous.
Meurer Bros. Co., Brooklyn, N. Y. Ventilators. Mfr., Av. D, bet. 6th & 7th Sts.
National Tube Co., Pittsburgh, Pa. Model of heating system. Mines Palace.
Ray Mfg. Co., San Francisco, Cal. Burners for heaters. Mch. 5th St., bet. Avs. G & H.
Robbins & Myers Co., The, Springfield, O. Exhaust Fans. Mch. 2nd St. & Av. C-2.
U. S. Steel Corp'n & Subsidy Cos., N. Y. Coll. Iron & Steel Exhibit. Mines Palace.
Weir Stove Co., Taunton, Mass. Mfr. Av. D & 6th St. Coal wood ranges, heating stoves, etc.
Westinghouse Electric & Manufacturing Co., Pittsburgh, Pa. Electric Fans. 4th St., bet. Avs. E & F, 2nd & 4th Sts., Avs. C & C2.

GROUP 70

MANUFACTURE, DISTRIBUTION AND USES OF GAS FOR LIGHT AND FUEL
Bristol Co., The, Waterbury, Conn. Gas Meters. Mch. Pal., 2nd St. & Av. D.
General Gas Light Company, San Francisco, Cal. Gas Arc Lamps. Mfr. Pal., 5th St. & Av. A. Humphrey Gas Arc Lamps; Humphrey Gas Mantles; Humphrey Semi-Indirect Fixtures; Humphrey Gas Irons; Gas Lighting Equipment of all kinds; Main Office & Factory. Kalamazoo, Mich. New York, London, E. C., and Wellington, New Zealand.
Industrial Instrument Co., The, Foxboro, Mass. Gas Meters. Mch. Pal., 3d St., Av. C2.
Meurer Bros. Co., Brooklyn, N. Y. Water Heaters. Mfr. Pal., Av. D, bet. 6th & 7th.
National Tube Co., Pittsburgh, Pa. Pipe Fitting. Collective Exhibit. Min. Pal.
U. S. Steel Corp'n & Subsidy Cos., N. Y. Coll. Iron & Steel Exh. Mines Pal.
Utility Gas & Appliance Sales Co., N. Y. Gas Heaters. Mch. Pal., 3rd St. & Av. F.
Weir Stove Company, Taunton, Mass. Gas Ranges. Mfr. Pal., Av. D & 6th St. "Coal, wood and gas ranges," "heating stoves and furnaces," "steam and water boilers."
Chapman Valve Mfg. Co., Indian Orchard, Mass.
 Steam Valves; Water Valves and Hydrants; Gas Valves; Exhibit installed in the Division of the City of Springfield.

GROUP 71

APPARATUS AND METHODS FOR LIGHTING NOT OTHERWISE CLASSIFIED
Coleman Lamp Co., Wichita, Kan. Boulevard Lamps. Mfr. Pal., 7th St., bet. Avs. O & D.
General Electric Co., Schenectady, N. Y. Shades, reflectors. 7th St., Av. B & 8th St.
Hyde, Henry C. Co., San Francisco, Cal. Mch. Pal., 4th St., bet. Avs. E & F. Methods of Lighting.
Safety Car Heating & Lighting Co., The, N. Y. Gas Lanterns. Mch. Pal., 1st St. & Av. D.
Union Metal Mfg. Co., Canton, O. Metal Columns. Min. Pal. Combined with U. S. Steel Corp'n. Exh.
Utility Gas & Appliance Sales Co., N. Y. Gas Heaters. Mch. Pal., 3rd St. & Av. F.
Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Mch. Pal. Luxsolite Lamp Fixtures. 2nd St. & Av. C-2.

GROUP 72

TEXTILE MATERIALS. SPINNING AND ROPE MAKING
Graton & Knight Mfg. Co., Worcester, Mass. Mch. Pal., 2nd St. & Av. H. Mill Strapping.
Tubbs Cordage Company, San Francisco, Cal. 8th St., bet. Avs. C & D.

GROUP 74

EQUIPMENT AND PROCESSES USED IN BLEACHING, DYEING, PRINTING AND FINISHING TEXTILES IN THEIR VARIOUS STAGES

American Laundry Machinery Company, The, New York, N. Y. Mfr., 7th, Av. D & 8th. Modern Laundry Machinery. Factories and Offices at Cincinnati, Chicago, and Rochester. Office at New York. Western Laundry Machinery Company, San Francisco and Los Angeles, Cal., Pacific Coast Agents.
Botany Worsted Mills, Passaic, N. J. Worsted & Woolens. V. I., 2nd St., bet. Avs. D & E. Specimens of textile materials bleached or dyed before spinning. Specimens of threads or yarns of cotton, linen, wool, silk, etc., pure or mixed, bleached, dyed or mottled. Specimens of textile fabrics bleached, dyed or printed.

United States Hoffman Co., Syracuse, N. Y. Mfr., 8th St., bet. Avs. C & D. Sanitary Steam Clothes; Knit Goods, and Laundry Pressing Machinery.

GROUP 75

EQUIPMENT AND PROCESSES USED IN SEWING AND MAKING WEARING APPAREL

Athins, E. C. & Co., Indianapolis, Ind. Leather Slitting Knives. Mfr. 5th St., bet. Avs. O & D.

Disston, Henry & Sons, Inc., Philadelphia, Pa. Cloth Knives and Leather Splitting Knives. Mfr. Pal., Av. C, cor. 6th St.

Eastman Machine Co., Buffalo, N. Y. Mfr., 7th & 8th Sts., bet. Avs. C & D. Manufacturers. Alternating and direct current reciprocating cloth cutting machine. Alternating and direct current rotary cloth cutting machine. W. & J. cuff-making machine.

General Electric Company, Schenectady, N. Y. Electric Flatirons. 7th St., Av. B & 8th St.

Lewis Blind-Stitch Machine Company, St. Louis, Mo. Mfr., 7th & 8th Sts., bet. Avs. O & D. Lock stitch and chain stitch blind-stitch sewing machines, for padding coat fronts and collars; filling linings in sleeves; waistband linings and curtains in trousers. Unlined coats and half-lined coats; trousers bottoms, plain and cuffs; overcoat facings and bottoms; cloak facings and bottoms.

Universal Button Fastening & Button Co., Detroit, Mich. Mfr., 7th & 8th Sts., bet. Avs. C & D. All kinds of metal buttons; automatic button attaching machine; cloth pressing machine.

Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Mch. Pal., 2nd St. & Av. C-2. Tailors' Irons.

GROUP 77

THREADS AND FABRICS OF FLAX, HEMP, ETC.; CORDAGE

Tubbs Cordage Co., San Francisco, Cal. Cordage. Mfr., 8th St., bet. Avs. O & D.

GROUP 78

YARNS AND FABRICS OF ANIMAL FIBERS

Botany Worsted Mills, Passaic, N. J. Worsted & Woolens. V. I., 2nd St., bet. Avs. D & E. Yarns of combed animal fibers. Yarns of carded animal fibers. Cloths for ladies' wear, made from animal fiber. Muslin delaine, serges, mohairs, etc. Fabrics of carded animal fibers, not fully or slightly fully; flannels, etc.

GROUP 81
**INDUSTRIES PRODUCING WEARING AP-
 PAREL FOR MEN, WOMEN
 AND CHILDREN**

Strauss, Levi & Co., San Francisco, Cal. Mfr. 7th & 8th Sts., bet. Avs. C & D. Overalls; Two Horse Brand; Koveralls; Two Horse Brand (Children's Play Garment) Koverall Nighties; Two Horse Brand Shirts; Sunset; Pants; Levi Strauss Make.

GROUP 82
**FURS AND SKINS, FUR CLOTHING;
 LEATHER, BOOTS AND SHOES**

Assoc. Glove Mfrs. of Cal., S. F. Wkg. Exh. of gloves. Mfr. Av. B, cor. 6th St.
 Bergmann, Theo., Shoe Mfg. Co., Inc., Portland, Ore. Shoes. Mfr., 6th & 7th, bet. Avs. B & C.
 Clapp, Edwin & Son, Inc., E. Weymouth. Mfr. 6th, bet. Avs. B&C, & 7th bet. Avs. B&C.
 Cook, A. J. & J. E., San Francisco, Cal. Leather. Mfr. 7th St., bet. Avs. B & C.
 Frank, S. H. & Co., San Francisco, Cal. Mfr. 6th St., cor. Av. B. Leather for shoes.
 Graton & Knight Mfg. Co., Worcester, Mass. Pal. of Mch., 2nd St. & Av. H. Hand Leathers and Aprons.
 Johansen Bros. Shoe Company, St. Louis, Mo. Mfr. 6th & 7th Sts., bet. Avs. B & C. Women's and children's shoes.
 Keith Company, George E. Campello, Brockton, Mass. Mfr. Av. C & 6th St. Walk-Over Shoes, for Men and Women.
 Legallet-Hellwig Tanning Co., S. F., Cal. Mfr. 7th St., bet. Avs. B & C. Leather.
 Northwestern Leather Co., Boston, Mass. Leather. Pal. of Mfr., 7th St., bet. Avs. B & C. Chrome and bark tanned side upper leather.
 Pfister & Vogel Leather Co., Milwaukee, Wis. Mfr., 6th St., bet. Avs. B & C. Tanners of a large variety of high-grade shoe uppers and sole, harness and glove leathers. Used the world over.
 Reuping, Fred Leather Co., Fon du Lac, Wis. Leather. Pal. of Mfr., 7th St., bet. Avs. B & C. Chrome tanned calf and side-upper shoe leathers.
 Rice & Hutchins, Inc., Boston, Mass. Mfr. Av. C, cor. 7th St. Manufacturers of Boots & Shoes.
 Schmidt, Carl E. & Co., Inc., Detroit, Mich. Leather. Mfr. 7th St., bet. Avs. B & C. Black and colored calf skins.
 United Shoe Machinery Co., Boston, Mass. Shoe-making Machinery. V. 1., 4th St., Av. E & 5th St.
 United States Leather Co., New York, N. Y. Leather. Mfr., Av. B, cor. 6th St. Sole Leather; Belting Leather; Harness Leather; Skirting Leather.

GROUP 83
**VARIOUS INDUSTRIES CONNECTED
 WITH CLOTHING**

Stetson, John B., Company, Philadelphia, Pa. Mfr. Av. C, cor. 7th St. Hats, soft and stiff, of the finest quality of fur felt.
 Strauss, Levi & Co., San Francisco, Cal. Mfr., 7th & 8th Sts., bet. Avs. C & D. Overalls; Two Horse Brand; Koveralls; Two Horse Brand, (Children's Play Garment) Koverall Nighties; Two Horse Brand; Shirts; Sunset; Pants; Levi Strauss Make.

Universal Button Fastening & Button Co., Detroit, Mich. Buttons. Mfr., 7th & 8th Sts., bet. Avs. C & D.

GROUP 84

SAFETY APPLIANCES

Atkins, E. C. & Co., Indianapolis, Ind. Saw Guards. Mfr. 5th St., bet. Avs. C & D.
 Bristol Co., The, Waterbury, Conn. Safety Set Screws. 2nd St. & Av. D.
 Graton & Knight Mfg. Co., Worcester, Mass. Pal. of Mch., 2nd St. & Av. H. Hand Leathers and Aprons.
 International Harvester Company of America, Chicago, U. S. A. Agr. Pal., 4th St., bet. Avs. B & C. Safety appliances and devices for protection of those engaged in manufacturing work and processes.
 Patent Scaffolding Co., New York, N. Y. Pal. of Mch., 5th St. & Av. I. Safety Scaffolds. Parrott & Co., S. F. Coast Repres. See ad on front cover of Machinery Catalogue.
 U. S. Steel Corp'n. & Subady. Cos., New York. Coll. Safety Appl. Exh. Min. Pal. American Bridge Co. American Sheet & Tin Plate Co. American Steel & Wire Co. Bunsen Coal Co. Carnegie Steel Co. Duluth, Missabe & Northern Ry. Co. H. C. Frick Coke Co. Illinois Steel Co. Oliver Iron Mining Co. National Tube Co. Tennessee Coal, Iron & R. R. Co.
 Lunkenheimer Co., The, Cincinnati, O. Engineering Appliances. Mch. Pal., 1st St., Av. G-2. Valves for Steam Use; Valves; Miscellaneous; Ground Key Work. Exhibit installed in Block 6, in Palace of Machinery.

American Pulley Co., The, Philadelphia, Pa. Sash Pulleys. Mch. Pal., 4th St. & Av. I. Pressed metal sash pulleys; miscellaneous pressed and drawn metal shapes. See Exhibit in Block 45, in Machinery Building.

GOVERNMENT EXHIBIT

United States Post Office Department—A Model Post Office will be maintained in the Mines Palace. Here all the workings of the service will be shown and the post facilities of the Exposition provided. Mail addressed in care of the Exposition will be delivered through the Model Post Office or held there subject to order. Carriers will deliver and collect mail throughout the Exposition Grounds. Mail boxes will be placed at convenient points; special delivery, registry, parcel post, money order and postal savings service will be provided. There will be shown an exhibit of United States postage stamps of every issue since the adoption by the United States of this means of collecting postage. All workings of the Model Post Office will be carried on in full view of visitors. Motion pictures of all phases of mail handling operations will be shown in the motion picture room of the Mines Palace. A standard steel Railway Post Office car will be shown in operation in the Transportation Building.

Foreign Section

NEW ZEALAND

GROUP 49

Barclay, Laura E., Auckland. Pyrography.
Aves. C & D, bet. 6th & 8th Sts.

GROUP 50

Parkinson, W. & Co., Auckland. Marble Sculpture. Agr., Aves. C & D, bet. 6th & 8th Sts.

GROUP 58

Public Works Department, Wellington. Overmantel piece. Agr., Aves. C & D, bet. 6th & 8th Sts.

Winks & Hall, Auckland. Furniture. Agr., Aves. C & D, bet. 6th & 8th Sts.

GROUP 77

Donaghy's Rope & Twine Co., Ltd., Dunedin. Ropes. Agr., Aves. C & D, bet. 6th & 8th Sts.

Madden Brothers, Christchurch. Rope. Agr., Aves. C & D, bet. 6th & 8th Sts.

Wellington Cordage Co., Ltd., Wellington. Binder Twine. Agr., Aves. C & D, bet. 6th & 8th Sts.

GROUP 78

Mosgiel Woolen Factory Co., Ltd., Dunedin. Woolen Robes. Agr., Aves. C & D, bet. 6th & 8th Sts.

GROUP 80

Bennett, Miss H. I., Tinaru, New Zealand. Table Center. Agr., Aves. C & D, bet. 6th & 8th Sts.

Roche, Mrs. J., Otago. Lace. Agr., Aves. C & D, bet. 6th & 8th Sts.

Smith, Mrs. E. L., Te Puke. Laces. Agr., Aves. C & D, bet. 6th & 8th Sts.

PHILIPPINE ISLANDS

GROUP 58

Ahern, Geo. P., Manila. Home Furniture. Agr., Av. D & 2nd St.

Barber, J. E., Manila. Chairs. Agr., Av. D & 2nd St.

Fischer, A. F., Manila. 2 tables. Agr., Ave. D & 2nd St.

Harbord, Col. J. G., Manila. Desks, side boards, etc. Agr., Av. D & 2nd St.

Johnson, Justice Finley, Manila. Home Furniture. Agr., Av. D & 2nd St.

Klar, Frank, Cotabato. Table. Agr., Av. D & 2nd St.

Pujalte, Miguel, Manila. Office Desk. Agr., Av. D & 2nd St.

Seaver, Capt., Manila. Tables. Agr. Av. D & 2nd St.

Schneider, E. E., Manila. Serving Table. Agr., Av. D & 2nd St.

Walker, Mrs. Barbour, Manila. Table. Agr., Av. D & 2nd St.

Official Catalogue of Exhibitors

Panama-Pacific International Exposition
San Francisco, California, 1915

CHARLES C. MOORE
President

Director-in-Chief
FREDERICK J. V. SKIFF

Division of Exhibits

ASHER CARTER BAKER, Director

Department **E**

VARIED INDUSTRIES

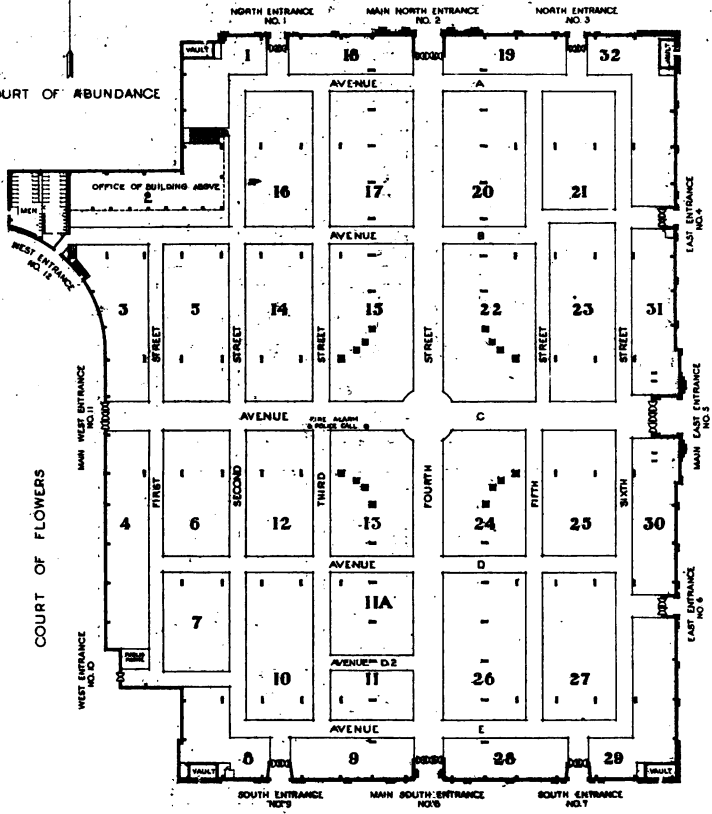
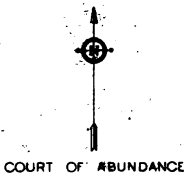
CHAS. H. GREEN, Chief

Preliminary Edition

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San Francisco, 1915



PALACE OF VARIED INDUSTRIES



COURT OF FLOWERS

AVENUE OF PROGRESS



AVENUE OF PALMS

FLOOR PLAN

PALACE OF VARIED INDUSTRIES

PANAMA-PACIFIC INTERNATIONAL EXPOSITION

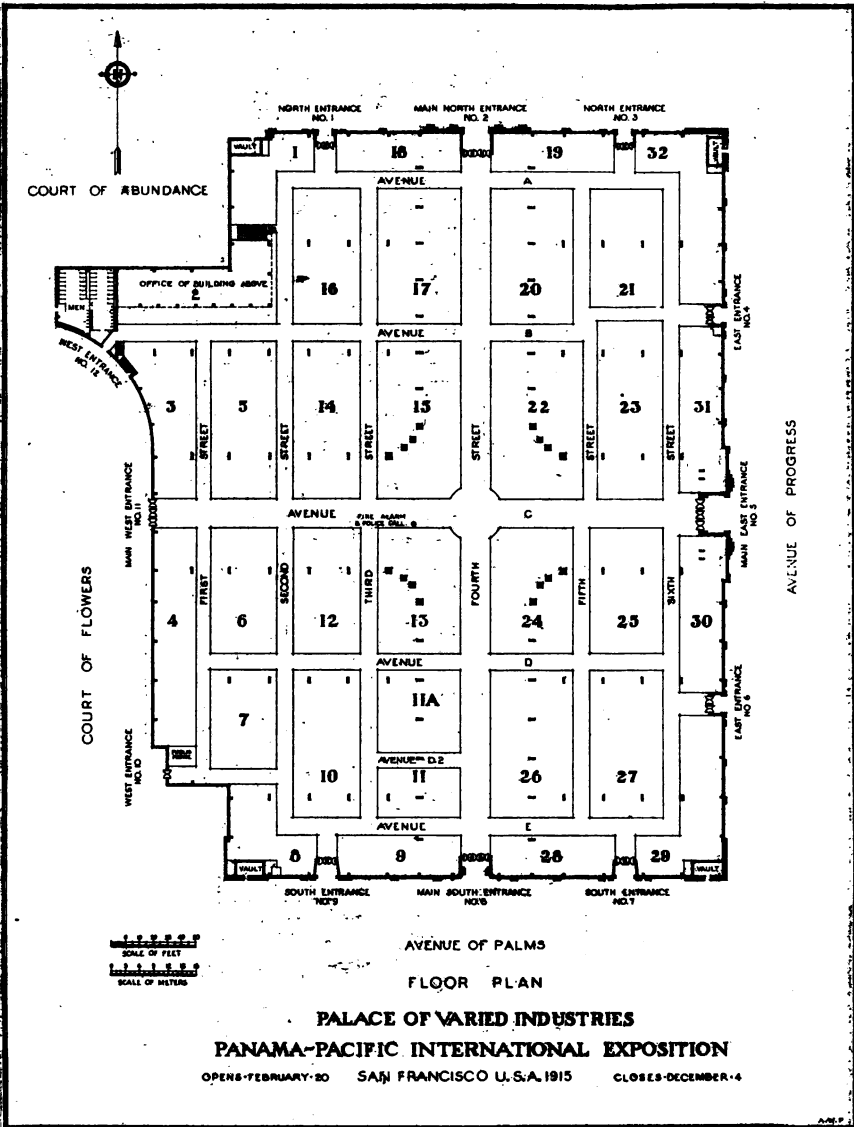
OPENS FEBRUARY 20 SAN FRANCISCO U.S.A. 1915 CLOSURE DECEMBER 14

HOW TO LOCATE AN EXHIBIT

The Palace of Varied Industries is laid out in blocks, which are consecutively numbered from 1 to 32, inclusive, as shown on the floor plan. The aisles are designated as streets (First to Sixth), running north to south, and as avenues (A to E), from east to west. To locate an exhibitor refer to the names, alphabetically arranged under the exhibit group to which each belongs in the official classification, and note the aisle location following each name. Street and Avenue signs are erected at their intersection on the corners of all blocks.

All Exhibits entered in this Catalogue are located in the Palace of Varied Industries, **unless otherwise indicated** after the entry. The following are abbreviations used in this Catalogue to designate other Exhibit Palaces:

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| Fine Arts Palace..... | Fn. A. Pal. |
| Education Palace..... | Ed. Pal. |
| Liberal Arts Palace..... | Lb. A. Pal. |
| Manufactures Palace..... | Mfr. Pal. |
| Varied Industries Palace..... | V. I. Pal. |
| Machinery Palace..... | Mch. Pal. |
| Transportation Palace..... | Trns. Pal. |
| Agriculture Palace..... | Agr. Pal. |
| Food Products Palace..... | Fd. Pr. Pal. |
| Live Stock Palace..... | Lv. St. Pal. |
| Horticulture Palace..... | Hor. Pal. |
| Mines and Metallurgy Palace..... | Min. Pal. |



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GROUP 44

Champion-Internat'l. Co., Lawrence, Mass. Papers. Lawr. Coll. Exh. V. I., 2nd St., Av. A & 3rd.
Eaton, Crane & Pike Co., Pittsfield, Mass. Fine Stationery. 4th St., cor. Av. A.
Faber, Eberhard, Brooklyn, N. Y. Lead pencils, pen holders, crayons. 4th, cor. Av. B.
Nat'l Folding Box & Paper Co., The, New Haven, Conn. Folding Paper Boxes. Av. B & 2nd St.
Novelty Cutlery Co., The, Canton, O. Desk furnishings, etc. (See Multiplex Display Fixtures). Av. A, cor. 2nd St.

GROUP 45

Meriden Cutlery Co., Meriden, Conn. Cutlery. Av. A, bet. 3rd & 4th Sts.
Novelty Cutlery Co., The, Canton, O. Cutlery. (See Multiplex Display Fixture.) Av. A, cor. 2nd St.
Simmons Hardware Co., St. Louis, Mo., Keen Kutter Cutlery. Mfr. V. I., 5th St., cor. Av. C.

GROUP 46

Baird-North Co., Providence, E. I. Silverware. Collective Exhibit. V. I., 3rd St., Av. E & 4th St.
Baldwin Jewelry Co., San Francisco, Cal. Silverware. V. I., Av. B, cor. 4th St.
Gorham Co., The, New York. Silver & plated ware, etc. V. I., 3rd St., Av. C & 4th St.
International Silver Co., Meriden, Conn. Silversmiths. 4th St., bet. Avs. B & C.
Sterling Silver, Hotel Silverware. Gold and Silver Plate. Ecclesiastical Ware. Cut Glass. Salesrooms, New York, Chicago and San Francisco, 150 Post St.
Regal Silver Mfg. Co., The, New Haven, Conn. Plated ware and coffee percolators. Av. B & 2nd St.

GROUP 47

Baird-North Company, Providence, E. I. Jewelry. Collective Exh. V. I., 3rd St. Av. E & 4th St.
California Gem Co., S. F., Cal. Precious and semi-precious stones. Av. B, cor. 4th St.
Chapard Mfg. Co., Providence, E. I. Jewelry. Collective Exhibit. V. I., 3rd St., Av. E & 4th St.
Low-Taussig-Karpeles Co., Providence, E. I. Jewelry. Collective Exhibit. V. I., 3rd St., Av. E & 4th St.
Lyons Manufacturing Co., Providence, E. I. Collective Exhibit. V. I., 3rd St., Av. E & 4th St.
Marden & Kettlety Co., Providence, E. I. Jewelry. Collective Exhibit. V. I., 3rd St., Av. E & 4th St.
Wightman & Hough Co., Providence, E. I. Coll. Exh. V. I., 3rd St., Av. E & 4th St.
elty Indian Blankets. Av. E & 3rd St.

GROUP 48

Bristol Co., The, Waterbury, Conn. Electric Time Recorders. Mch., 2nd St. & Av. D.
Herschede Hall Clock Co., The, Cincinnati, O., U. S. A. 3rd St., bet. Avs. B & C. Exclusive makers of high grade Chime Hall Clocks and Mantel Clocks; Chime Hall Clock Movements; Hall Clocks complete; Mantel Clocks complete; Hall and Mantel Clock cases, especially selected solid oak and mahogany, designed to harmonize with any surroundings in the home, institution or public building.

Industrial Instrument Co., The, Foxboro, Mass. Elec. Time Recorders. Mch. 3rd St. & Av. C2.

New Haven Clock Co., The, New Haven, Conn. Clocks & Watches. (New Haven Coll. Exh.) Av. B & 2nd St.

Waltham Watch Co., The, Waltham, Mass. Instruments and Instruments of Precision. 2nd St., Av. C & 3rd St.

Western Clock Co., La Salle, Ill. Av. B, cor. 3rd St. Makers of Alarm Clocks, Watches and Movements. "Made in La Salle, Ill., by Westclox"; Big Ben Alarm Clock; Baby Ben Alarm Clock; Sleepmeter Back Bell Alarm Clock; Sleepmeter Intermittent Alarm Clock; America Alarm Clock; The Lookout Alarm Clock; Ironclad Alarm Clock; Bingo Intermittent Alarm Clock; Boyproof Watch. Offices, La Salle, Ill.; Factories, Peru, Ill.; Pacific Coast Agents, Schloss Manufacturing Co., 42 Beale St., San Francisco, Cal.

GROUP 49

California Redwood Burl Co., Eureka, Cal. Novelties from Sequoia or Redwood. V. I., Av. B, cor. 3rd St.
Gorham Co., The, New York, N. Y. Bronzes. 3rd St., Av. C & 4th St.
Oregon City Mfg. Co., Oregon City, Ore. Novelty Indian Blankets. Av. E and 3rd St.

GROUP 50

Fulper Pottery Co., Flemington, N. J. Art Novelties. 2nd St., bet. Avs. B & C.
Gorham Co., The, New York, N. Y. Bronzes. 3rd St., Av. C & 4th St.
Vermont Marble Co., Proctor, Vt. Works of Art in Marble. Av. E & 2nd St.

GROUP 51

Gorham Co., The, New York, N. Y. Cathedral Windows. 3rd St., Av. C & 4th St.

GROUP 52

Arlington Company, The, Arlington, N. J. Mfrs. V. I. Av. B, cor. 3rd St. Brushes for toilet use. Combs, dressing and fine combs. Mirrors for toilet use. Toilet goods and fancy goods. Pyralin Lacquers and Enamels. Arlington waterproof collars and cuffs. Transparent Pyralin Sheeting. Opaque Pyralin Sheeting in all colors.
Baird-North Co., Providence, E. I. Leather Goods. Collective Exhibit. V. I., 3rd St., Av. E & 4th St.
Cal. Leather Novelty Wks., S. F., Cal. Purses & Leather Novelties. Av. A, cor. 2nd St.
Fulper Pottery Co., Flemington, N. J. Fancy Articles. 2nd St., bet. Avs. B & C.
Gorham Co., The, New York, N. Y. Fine Leather Goods. 3rd St., Av. C & 4th St.

GROUP 53

Faber, Eberhard, Brooklyn, N. Y. Rubber Bands & Rubber Erasers. 4th St., cor. Av. B.
Tyer Rubber Co., Lawrence, Mass. Druggists' Rubber Sundries. (Lawrence Coll. Exh.) 2nd St. & Av. A & 3rd St.

GROUP 54

Gantner & Mattern Co., San Francisco, Cal. Knit Goods. 4th St., cor. Av. E.
Liebes, H. & Co., S. F., Cal. Rough and prepared furs, skins, etc. Av. D, cor. 3rd St.
Oregon City Mfg. Co., Oregon City, Ore. Hunting and Outdoor Apparel. Av. E, & 3rd St.
Pfister, J. J., Knitting Co., San Francisco, Cal. Knit Goods. Knit goods in Silk, Wool and Cotton, comprising Sweaters, Jerseys, Coat Sweaters, Gymnasium and Athletic Goods. Bathing Suits and Accessories. Infants' Hoods and Toques. Salesroom, 114 Sansome St., corner of Bush St. Mill at 8th and Parker Sts., Berkeley, Cal. Av. D, cor. 3rd St.
Winona Mills, New Haven, Conn. Sweaters. (New Haven Coll. Exh.) Av. B & 2nd St.

GROUP 55

Ashaway Line & Twine Mfg. Co., Providence, B. I. Collective Exhibit. V. I., 3rd St., Av. E & 4th St.

GROUP 56

Mysto Mfg. Co., The, New Haven, Conn. Mechanical toys. (New Haven Coll. Exh.) Av. B & 2nd St.

GROUP 57

Fulper Pottery Co., Flemington, N. J. Ceramics for permanent decoration. 2nd St., bet. Avs. B & C.

Holt, Chas. L., Lawrence, Mass. Roof Connection & Expansion Joint. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.

Vermont Marble Co., Proctor, Vt. Marble material for all purposes. Av. E & 2nd St.

GROUP 58

Peck & Hills Furniture Co., Chicago, Ill. Home Furnishings. V. I., 5th St., bet. Avs. A & B. Branch offices in New York, San Francisco, Oakland, Los Angeles, and Denver.

GROUP 59

Vermont Marble Co., San Francisco, Cal. Marble Monuments and Mausoleums. Av. E, 2nd.

GROUP 60

Ashaway Line & Twine Mfg. Co., Providence, B. I. Collective Exhibit. V. I., 3rd St., Av. E & 4th St.

California Bedwood Burl Co., Eureka, Cal. Novelties. Av. B, cor. 3rd St.

Crescent Tool Co., Jamestown, N. Y. Pliers & Wrenches. (See Multiplex Display Fixtures.) Av. A, cor. 2nd St.

Sargent & Co., New Haven, Conn. Hardware Specialties. (New Haven Coll. Exh.) Av. B & 2nd St.

Watrous-Acme Mfg. Co., Des Moines, Ia. Fittings for doors, etc. (See Multiplex Display Fixtures.) Av. A, cor. 2nd St.

GROUP 64

Plymouth Mfg. Co., Lawrence, Mass. Rugs. (Lawrence Coll. Exh.) 2nd St., Av. A & 3d.

GROUP 65

California Cotton Mills Co., Oakland, Cal. Comforters. Av. E, cor. 2nd St.

Oregon City Mfg. Co., Oregon City, Ore. Woolen Bed Blankets, etc. Av. E & 3rd St.

GROUP 66

Friction Transfer Pattern Co., The, N. Y. Friction Transfer Patterns for China. 2nd St., bet. Avs. C & D.

Fulper Pottery Co., Flemington, N. J. Stoneware, plain and decorated. 2d, bet. B & C. Samiah's Ceramic Art, San Francisco, Cal. Hand-Painted China. 2nd St., Av. B. Dinner ware, lamps, portraits, mantels. Studio, 230 Stockton St., opp. Union Square.

GROUP 67

Malleable Iron Fittings Co., New Haven, Conn. Collective Exhibit. Av. B & 2nd St.

Peck Bros. & Co., The, New Haven, Conn. Plumbers' Supplies. (New Haven Coll. Exhibit.) Av. B & 2nd St.

GROUP 68

International Silver Co., Meriden, Conn. Cut Glass. 4th St., bet. Avs. B & C.

GROUP 69

Fulper Pottery Co., Flemington, N. J. Cooking Utensils, Earthenware, etc. 2d, Avs. B & C.

GROUP 70

Sentinel Automatic Gas Appliance Co., The, New Haven, Conn. Gas Appliances. (New Haven Coll. Exh.) Av. B & 2nd St.

GROUP 71

De Laitte Automatic Gas Syndicate, San Francisco, Cal. Mch.

Fulper Pottery Co., Flemington, N. J. Lamps. 2nd St., bet. Avs. B & C.

GROUP 72

David Brown Co., Lawrence, Mass. Bobbins. (Lawrence Coll. Exh.) 2nd St., Av. A & 3d.

Moorehouse, A. D., Lawrence, Mass. Picker Straps. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.

Robinson Bramley Co., Lawrence, Mass. Loom Pickers, etc. (Lawrence Coll. Exh.) 2nd, Av. A & 3rd.

Union Shuttle Co., Lawrence, Mass. Power Loom Shuttles. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.

GROUP 74

Forsyth Dyeing Co., The, New Haven, Conn. Dyed Cotton Material. (New Haven Coll. Exh.) Av. B & 2nd St.

Singer Sewing Machine Co., New York, N. Y. Sewing Machines for attaching marking tapes to articles to be laundered and for name writing and darning on towels and other articles. 1st St., Av. D, 2nd St. & Av. E.

GROUP 75

Friction Transfer Pattern Company, The, New York, N. Y. Implements for Needlework. 2nd St., bet. Avs. C & D.

Greist Mfg. Co., The, New Haven, Conn. Sewing Machine Attachments. (New Haven Coll. Exh.) Av. B & 2nd St.

Singer Sewing Machine Company, New York, N. Y. Machines. 1st St., Av. D, 2nd St. & Av. E. Sewing machines for family use & for various kinds of manufacturing purposes requiring stitching processes, hemming, embroidering, etc.

GROUP 76

California Cotton Mills Co., Oakland, Cal. Toweling & Duck. Av. E, cor. 2nd St.

Everett Mills, Lawrence, Mass. Cotton Fabrics. 2nd St., Av. A & 3rd St. (Lawrence Collective Exhibit.)

Pacific Mills, Lawrence, Mass. Cotton Fabrics, 2nd St., Av. A & 3rd St. (Lawrence Collective Exhibit.)

Pacific Print Works, Lawrence, Mass. Cotton Fabrics. 2nd St., Av. A & 3rd St. (Lawrence Collective Exhibit.)

Tabular Woven Fabric Co., Pawtucket, E. I. Collective Exh. 3rd St., Av. E & 4th St.

GROUP 77

California Cotton Mills Co., Oakland, Cal. Damask, Jute Burlaps and Art Burlap. Fabrics of flax and hemp. Ropes & Twines. Av. E, cor. 2nd St.

International Harvester Company of America, Chicago, U. S. A. Agr., 4th St., bet. Avs. B & C. Cordage, cables, rope and twine.

Littwitz, Max, New York, N. Y. Hand spun linens. Av. D, cor. 2nd St.

Pemberton Mills, Lawrence, Mass. Tickings, Shirts and Awning Canvas. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.

Smith & Dove Mfg. Co., Lawrence, Mass. Linen Thread, Yarn & Twine. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.

GROUP 78

Ayer Mills, Lawrence, Mass. Worsted Fabrics. (Lawrence Coll. Exh.) 2d, Av. A & 3d.
 Brightwood Mfg. Co., Lawrence, Mass. Worsted Fabrics. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.
 Gantner & Mattern Co., San Francisco, Cal. Knit Goods. 4th St. & Av. E.
 Pemberton Mills, Lawrence, Mass. Flannels. (Lawrence Coll. Exh.) 2nd St., Av. A & 3d.
 Oregon City Mfg. Co., Oregon City, Ore. Flannel cloths, etc. Av. E & 3rd St.
 Pacific Mills, Lawrence, Mass. Woolen Fabrics. (Lawrence Coll. Exh.) 2nd, Av. A & 3d.
 Pfister, J. J. Knitting Co., Inc., Berkeley, Cal. Knitted stuffs in combed or carded animal fibers. Av. D, cor. 3rd St.
 Washington Mills, Lawrence, Mass. Woolen & Worsted Fabrics. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.
 Wood Worsted Mills, Lawrence, Mass. Worsted Fabrics. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.
 Wright Mfg. Co., Lawrence, Mass. Braids & narrow fabrics. (Lawrence Coll. Exh.) Av. A & 2nd St.

GROUP 79

Anderson Bros. Silk Co., Barnert Mill, Paterson, N. J. Broad Silks and Silk Novelties. Av. E, cor. 3rd St.
 Carlson Currier Co., Petaluma, Cal. Silk, raw, thrown; floss silk, silk fabrics, etc. Av. D, cor. 4th St.
 Gantner & Mattern Co., S. F., Cal. Knit goods. Silk shawls. 4th St., cor. Av. E.
 Silk Culture Society, Eutherford, Napa Co., Cal. Silks. 2nd St., Av. A.
 Wright Mfg. Co., Lawrence, Mass. Braids & narrow fabrics. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.

GROUP 80

Carlson Currier Co., Petaluma, Cal. Embroidery made by hand. Embroidery by needle or crochet with silk. Av. D, cor. 4th St.
 Friction Transfer Pattern Co., The, New York, N. Y. Friction Transfer Patterns for Embroidery. 2nd St., bet. Avs. C & D.
 Lätwitz, Max, New York, N. Y. Hand-made laces and embroideries. V. I., Av. D, cor. 2nd St.
 Singer Sewing Machine Co., New York, N. Y. Lambrequins & Portieres, ornamented with embroidery, lace and trimmings. 1st St., Av. D & 2nd St. & Av. E.
 Wright Mfg. Co., Lawrence, Mass. Braids & narrow fabrics. (Lawrence Coll. Exh.) 2nd St., Av. A & 3rd St.

GROUP 81

Butterick Publishing Co., New York, N. Y. 2nd St., Av. C & 3rd St. a. Butterick Patterns & Fashions. b. The Delineator. c. Butterick Designs for Embroidery, etc. Headquarters in London, Paris, Berlin.
 Gantner & Mattern Co., San Francisco, Cal. Knit Goods. 4th St., cor. Av. E.
 Liebes, H. & Co., S. F., Cal. Ready made clothing for women & girls. Av. D, cor. 3rd St.
 Oregon City Mfg. Co., Oregon City, Ore. Clothing for men & women. Av. E & 3rd St.
 Pfister, J. J. Knitting Co., Inc., Berkeley, Cal. Knit goods in cotton, wool & silk. Av. D, cor. 3rd St.
 Winona Mills, New Haven, Conn. Vests and Sweaters. (New Haven Coll. Exh.) Av. B & 2nd St.

GROUP 82

Liebes, H. & Co., S. F., Cal. Furs and Skins, dressed & tanned, etc. Av. D, cor. 3rd St.

Singer Sewing Machine Co., New York, N. Y. Machine for sewing boots and shoes. 1st St., Av. D, 2nd St. & Av. E.

United Shoe Machinery Co., Boston, Mass. Shoe Making Machinery. 4th St., Av. E & 5th St. V. I.

GROUP 83

American Mills Company, The, New Haven, Conn. Collective Exhibit. Av. B & 2nd St.
 Arlington Co., The, Arlington, N. J. "Pyralin" Prod. Collars & Cuffs. Av. B, cor. 3rd.
 Berger Bros. Co., New Haven, Conn. Corsets. (New Haven Coll. Exh.) Av. B & 2nd St.
 California Leather Novelty Works, San Francisco, Cal. Leather Belts. Av. A, cor. 2d St.
 Gantner & Mattern Co., San Francisco, Cal. Knit Goods. 4th St., cor. Av. E.
 Heineman, H. M. Sons, San Francisco, Cal. Cravats and Neckties. Av. D, cor. 2nd St.
 Newman, I. & Sons, New Haven, Conn. Corsets. (New Haven Coll. Exh.) Av. B & 2nd.
 Oregon City Mfg. Co., Oregon City, Ore. Clothing for hunting & outdoor use. Av. E & 3rd St.
 Pfister, J. J. Knitting Co., Inc., Berkeley, Cal. Knit goods in cotton, wool & silk. Av. D, 3d.
 Strouse, Adler & Co., New Haven, Conn. Corsets. (New Haven Coll. Exh.) Av. B & 2nd.
 United Lace & Braid Mfg. Co., Auburn, Providence, E. I. Collective Exh. 3rd St., Av. E & 4th St.
 Winona Mills, New Haven, Conn. Knit Goods. (New Haven Coll. Exh.) Av. B & 2nd St.

CALIFORNIA

COLLECTIVE EXHIBIT

V. I., 2nd St. & Av. A.

GROUP 45

Barr Brothers Co., Oakland Cal. Outlery.

GROUP 47

Miller, I., Oakland, Cal. Handwrought Jewelry.

GROUP 49

Copper Shop, The, Oakland, Cal. Hand hammered copper.

Miller, I., Oakland, Alameda, Co., Cal. Art Craft in Metals.

Vinther & Jorgensen, Oakland, Cal. Hand-painted China.

GROUP 52

Walker, The, Misses, San Jose, Cal. Fancy Articles.

GROUP 65

Pacific Shade Cloth Co., Oakland, Alameda Co., Cal. Shade Cloth. 2nd St. & Av. H. Hand-made shade cloths. The best only; opaque, duplex, triplex or light-proof; transparent or tint. Made in oil colors.
 Rubino Bros., Oakland, Cal. Shade Cloth.

GROUP 66

Vinther & Jorgensen, Oakland, Cal. Hand-painted China.

GROUP 75

Barr Brothers Co., Oakland, Alameda Co., Cal. Needles.

Cox, C. E., Berkeley, Alameda Co., Cal. Ironing Board.

Milla, M. D. E., Oakland, Alameda Co., Cal. Ironing Board.

GROUP 82

Cahn, Nickelsburg & Co., Oakland, Cal. Boots and Shoes.

GROUP 83

Barr Brothers, Oakland, Cal. Needles.

INDIANA

GROUP 47

(Collective Exhibit.) 1st St., bet. Avs. B & C, V. I.
Blackledge, Mrs. Mary E., Indianapolis. Abalony necklace—original design; necklace in copper, necklace, maple design, stick pin.
Bowles, Janet Payne, Indianapolis. Breastpin, jewelry, necklace, pendant, metal work necklace.

GROUP 49

Overbeck Sisters Studio, Cambridge City, Ind.
 Art Pottery. V. I., 1st St., bet. Avs. B & C.

GROUP 50

Goodwin, Miss Frances, Newcastle. 1 plaster cast. Bust—Rev. Stanley.
Sorenson, Clara B. Leonard, Indianapolis. Bas relief in plaster, Bubble Baby, Ready for the Bath, The Little Whistler, Duseas Franciscoda Runini, Portrait Sketch, This Little Pig Went to Market.
Washburn, Miss Mary, Bensselaer, Statuette— Philip Paul, The Belgian Refugee, Flowers, Consolation.

GROUP 52

Bowles, Janet Payne, Indianapolis. Jewelry box.
Caray, Miss Eleanor, Indianapolis. Decorated sewing basket.
Longcliff Hospital, Logansport. 4 Raffia baskets, reed basket.
Murphy, Minnie Coffin, Indianapolis. Serving tray.
Robinson, Susan, Peru. 5 spool case boxes.

GROUP 54

Shover, Lucy, Indianapolis, Ind. One rug design. V. I., 1st St., bet. Avs. B & C.

GROUP 56

Hadley, Mrs. Alice Ross, Indianapolis. Vase, plate and bowl.
Hibben, Miss Helen L., Indianapolis. Art Tiles.
O'Neill, Mrs. Laura H., Indianapolis. Pitcher, plate, hot water pot, cup and saucer, jardiniere, pitcher and 6 cups.
Orndorf, Mrs. J. H., Indianapolis. Bonillon cup and saucer, service plates, cup and saucer.
Overbeck Sisters' Studio, Cambridge City. Decorated tiles, fern dishes, tea set.

GROUP 58

Sparks, Mrs. Mollie, Valparaiso. Hexagonal vases, fruit plate, rose jar, sachet vase, square vase, bowl.
Stoddard, Mrs. W. H., 2315 Bellefontaine, Indianapolis. Bowl, 6 cups, pudding set 14 pieces, bowl with 6 plates, tea pot, 6 cups and saucers, 6 plates, bowl, 2 bowls.
Tompkins, Mrs. A. W., 2717 N. New Jersey, Indianapolis. 6 cups and saucers, 1 stein, 1 jar, bowl and 4 plates, 1 cup and saucer, pitcher.
Welch, Mrs. Sarah E., 2339 Broadway, Indianapolis. Chocolate set, pitcher, 6 cups and saucers, tea set 3 pieces.
Wilcox, Mrs. O. C., 2717 N. New Jersey, Indianapolis. 6 cups and saucers, 1 stein, 1 jar, bowl and 4 plates, 1 cup and saucer, pitcher.
Williams, Miss Clara, 2624 N. Illinois St., Indianapolis. 1 service plate.

GROUP 59

Albred, Miss Mary, Burrows, Ind. Tatted doily. 1st St., bet. Avs. B & C.
Anderson, Miss Marion, Bedford. Two handsome collars, 3 handkerchiefs.
Armstrong, Mio & Ora, Bedford. Tatting luncheon set, 13 pcs.: waist yoke, tatting; 10-point doily, tenerliffe lace collar.

Augsburger, Olive M., Woodburn. Embroidered doily.
Baker, Mrs. T. E., Indianapolis. Baby quilt, cross-stitch design.
Berryman, Mrs. W. L., Tipton. Centrepiece tinting and embroidered on net, child's point-lace dress and bonnet (christening robe), embroidered bed set.
Brown, Mrs. A. S., Clay City. Crochet piano scarf.
Buitta, Mrs. Bessie Rhode, Morocco. Drawn-work tablecloth.
Caldwell, Mrs. Wm. L., Indianapolis. Point-lace bertha.
Clark, Mrs. Robt. A., Attica. Lunch cloth.
Cole, Mrs. Edw. N., Kokomo. 1 crochet doll.
Convent of St. Benedict, Ferdinand. Battenburg butterfly-point lace.
Craft, Mrs. W. H., Indianapolis. Collar and cuff set, caricmacross lace.
Cragmont-Southeastern Hospital for Insane, Madison. 1 crochet square, tatted collar and cuff set, samples of knitted lace, lunch cloth.
Cunil, Mrs. Sadie, Petersburg. Woven Tenerliffe doily, point-lace doily, embroidered bed set.
De Grotte, Mrs. Fred, Mishawaka. Embroidered centerpiece (2), embroidered napkin.
De Letter, Mrs. Julia, Brasil. Baby Irish cap.
Demanie, Jennie, Vevay. Crochet and embroidered centerpiece, white embroidered piece-feather design.
Dreifus, Theresa, Delphi. Darned huck vest, Hardanger table cloth.
Findley, Mrs. M. A., Kokomo. Embroidered baby dress, pair hemstitched towels (cross-stitch design).
Fish, Miss Julia E., Indianapolis. Beaded card case.
Fish, Mrs. W. S., Indianapolis. Beaded bag (parrot design), card case (rose design).
Gifford, Mrs. M. E., Tipton. Hand-made baby dress, Battenberg centerpiece.
Gregg, J. C., Greenwood. Embroidered centerpiece.
Harris, Miss Florence E., Rising Sun. Four table mats.
Hart, Mrs. E. S., Greenfield. Crochet centerpiece (roll-stitch design), crochet centerpiece (pineapple and bean design).
Hendricks, Mrs. Chas. E., Greenfield. Duchess lace collar, point-lace collar, collar point lace, applique, doily (novelty braid design), point-lace handkerchief, embroidered lunch cloth, lunch set in Battenburg (13 pieces), 1 pair embroidered curtains on burlap.
Henry, Nellie E., Fort Wayne. Fillet insertion and fillet monogram.
Houck, Mrs. G. W., Kokomo. Beaded chain, horsehair chain, beaded belt.
Hunter, Miss Stella, Fort Wayne. Embroidered corset cover, handkerchief, child's apron, collars (2), and towel.
Johnson, Alfreda, West Point. Tenerliffe centerpiece, crochet centerpiece.
Johnson, Anna, West Point. Embroidered centerpiece.
Jeffers, Mrs. H. A., Bloomington. Crochet centerpiece.
Jones, Mrs. Winson, Lebanon. Embroidered pincushion, jabot, handkerchief, shirtwaist set, samples (button holes).
Kerr, Susan C., Union City. Hardanger lunch cloth.
Knight, Mrs. Mary, Rochester. Crochet centerpiece.
Kumph, Mrs. J. F. C., Brasil. Crochet pillow top.
Langford, Marguerite, Fort Wayne. Fillet collar, fillet yoke.
Lentz, Mrs. L. G., Tipton. Persian lunch cloth (drawwork).

- Leonard, Miss A. M., Indianapolis. Embroidered pillow top.
- Longcliff Hospital, Logansport. Dresser scarf, dresser cover, table cover, handkerchief, crochet lace, and one piece crochet lace.
- McCoord, Mrs. Harris, Rockville. Embroidered towel, tatting handkerchief.
- McFadden, Mrs. Mary, Indianapolis. Two tatted handkerchiefs, 2 jabots.
- Marion County Hospital for Incurable Insane, Juliette. Drawnwork squares (white and ecru).
- Meier, Mrs. Lewis, Indianapolis. Beaded bag (conventional design).
- Moler, Mrs. Angela, Indianapolis. Handwoven scarf.
- Morgel, Mrs. Geo., Brazil. Tatted doily.
- Nash, Mrs. Winona M., Tipton. Embroidered centrepiece (Battenburg border), dresser scarf, centrepiece (hand-made lace), one-half dozen embroidered napkins with monogram, embroidered lunch cloth.
- Pugsley, Mrs. P. J., Peru. One pair infant's crochet shoes.
- Rickey, Mrs. Ada M., Lebanon. Piece of Venetian crochet.
- Rubelt, Miss Ida C., Brazil. Ladies' waist (baby Irish lace).
- Rubey, Miss Ida, Winchester. French embroidered nightdress.
- Scott, Mrs. Ida Gray, Indianapolis. Silk Battenburg stole.
- Smeltzer, Ella, Pyemont. Dresser scarf.
- Smith, Adelpia, Delphi. Scarf (knitted lace).
- Stevenson, Mrs. Lawrence, Oaktown. Crochet centrepiece (roll stitch).
- Stone, Mrs., Westfield. Four-piece luncheon set.
- Strong, Mrs. Frank, Shelbyville. Embroidered wild-rose centrepiece.
- Strong, Mrs. E. H., Indianapolis. Drawnwork lunch cloth and dresser scarf.
- Turner, Miss Jennie, Lafayette. Beaded belt, point-lace handkerchief, drawnwork handkerchief.
- Waldemeyer, Mrs. Anna, Vevay. 1 fillet centrepiece (morning-glory pattern).
- Wahl, Mrs. Jacob, Vevay. Crochet daisy doily (original design, awarded medal at Manchester, England, 1914), crochet oval and round doily, fillet crochet centrepiece, large fillet crochet centrepieces of grapes, 2 small doilies, 1 medium, centrepiece and tray cloth, crochet block and bar doily, crochet doily (horn of plenty design), hexagon doily, crochet plate and tumbler doily, rib-pattern crochet doily, large crochet doily (diamond design) crochet centrepiece (diamond and star design), crochet oval in scroll-fillet design.
- Webster, Mrs. E. E., Bedford. Crochet collar and cuff set.
- Wilson, Bess, Delphi. Lunch cloth and fancy towel.
- Wilson, Mrs. John, Remington. Point-lace handkerchief, tie and Battenburg collar.
- Woman's Prison, Indianapolis. Cross-stitch towels, crochet belt, Mexican lunch cloth, drawnwork bed set, embroidered bed set, crochet bed set.
- Woodburn, Mrs. Howard, Bowling Green. Dark linen lunch cloth (crochet border).
- Yaggy, Prudence A., Woodburn. Tatted doily.
- Yeager, Alma, Shelbyville. 18 crochet mats, crochet bag.
- Yeakley, Mrs. Samuel, Burrows. Embroidered towel.

Foreign Section

DENMARK

GROUP 46

- Hertz, P., Copenhagen. Silver and goldsmith to his Majesty, the King of Denmark. Specialty, enamelled silver. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Jensen, George, Copenhagen. Handwrought silver, original design. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

GROUP 47

- Ericksen, Miss Bergitte, Copenhagen. Enamelled brooches, rings, etc., in handsome silver. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

GROUP 49

- Copenhagen Faience Factory, Copenhagen. Vases, Placques and Table Ware. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Enke, J. Ipsens, Copenhagen. Terra Cotta Manufacturers to his Majesty, the King of Denmark. Statuary and Vases, antique and modern. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Hjorth, L., Ronne. Statuettes and Vases in terra cotta and glazed stone ware. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Jensen, George, Copenhagen. Handwrought silver, original designs. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Kohler, Herman A., Næstved. Art. Pottery in lustre and underglaze decoration. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

- Westergaard, Miss Mette, Copenhagen. Handwoven works. Gobelins after Mohls designs. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

GROUP 50

- Enke, P. Ipsens, Copenhagen. Terra Cotta Manufacturer to his Majesty, the King of Denmark. Statuary and Vases, antique and modern. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Hjorth, L., Ronne. Statuettes and Vases in Terra Cotta and Glazed Stoneware. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Saligath, Mrs. L., Copenhagen. Bronze Work. Statuettes of famous racehorses modelled from life. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

GROUP 66

- Copenhagen Faience Factory, Copenhagen. Vases, Placques and Table Ware. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Hjorth, L., Ronne. Statuettes and Vases in Terra Cotta and Glazed Stoneware. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.
- Emke, P. Ipsens, Copenhagen. Terra Cotta Manufacturer to His Majesty, the King of Denmark. Statuary and Vases, antique and modern. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

GROUP 80

- Hirsch, Mrs. Sarah, Copenhagen. Embroideries. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

Illum, A. C., Copenhagen. Embroideries. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

Larsen, Mrs. Ingleborg, Copenhagen. Tablecloth, Hedebo style. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

Sorensen, Miss Andrea, Copenhagen. Embroideries, old Hedebo style. (Danish Collective Exhibit.) V. I., 5th St. & Av. A, 6th St. & Av. B.

NETHERLANDS

GROUP 46

Koninklyke Utrechtsche Fabriek Van Zilverwerken, Van C. J. Begeer, Utrecht. Silverware. 5th St., Av. D, 6th St. & Av. E.

Miekerk Gebr., Schoonhoven. Silverware. 5th St., Av. D, 6th St. & Av. E.

GROUP 47

Koninklyke Utrechtsche Fabriek Van Zilverwerken Van C. J. Begeer, Utrecht. Jewelry. 5th St., Av. D, 6th St. & Av. E.

GROUP 51

Handoes, Gabriel, Utrecht. Stained Glass. 5th St., Av. D, 6th St. & Av. E.

GROUP 60

Deventer Capsulefabriek, Deventer. Metal caps. 5th St., Av. D, 6th St. & Av. E.

GROUP 64

Stoomweverijen, N. V., Voorheen Firma G. Van Besouw, J. Bzn., Goirle. Carpets and matting. 5th St., Av. D, 6th St. & Av. E.

GROUP 66

N. V. Arnheemsche, Fayencefabriek, Arnhem. Ceramics. 5th St., Av. D, 6th St. & Av. E.
E. Delftsch Aardwerkfabriek, "De Porceleyne Flees," Delft. Ceramics. 5th St., Av. D, 6th St. and Av. E.

N. V. Fabriek Van Brouwer's Aaredewerk Voorheen Willem C. Brouwer, Leiderdorp. Ceramics. 5th St., Av. D, 6th St. & Av. E.

Jager, A., Hilversum. Painted Tiles. 5th St., Av. D, 6th St. & Ave. E.

N. V. Kunstaardwerkfabriek "St. Lucas," Utrecht. Ceramics. V. I., 5th St., Av. D, 6th St. & Av. E.

Plasteelbakkerij "De Distel," Amsterdam. Ceramics. V. I., 5th St., Av. D, 6th St. & Av. E.

Plasteelbakkerij "Zuid-Holland," Gouda. Ceramics. 5th St. & Av. D, 6th St. & Av. E.

N. V. Steenfabriek, "Geldermalsen," Geldermalsen. Fire bricks. 5th St. & Av. D, 6th St. & Av. E.

Tichelaar Gebr., Makkum. Ceramics. 5th St. & Av. D, 6th St. & Av. E.

Van Hulst, J., Harlingen. Wall Tiles. 5th St. & Av. D., 6th St. & Av. E.

GROUP 68

Strykers, A. Tiel. Wicker-covered bottles. 5th St. & Av. D, 6th St. & Av. E.

N. V. Vereenigde Glasfabrieken, Vlaardingen. Bottles. 5th St. & Av. D, 6th St. & Av. E.

GROUP 71

W. J. Stokvis' Koninklyke Fabriek Van Metaalwerken, Arnhem. Lighting fixtures. 5th St. & Av. D, 6th St. & Av. E.

GROUP 76

Firma M. Van Dam & Zonen, Enschede. Textiles. 5th St. & Av. D, 6th St. & Av. D.

GROUP 82

Firma Frans Van DenAssum, Dongen. Leather boots. 5th St. & Av. D, 6th St. & Av. E.

SWEDEN

The exhibits of Sweden, classified in this Department, are installed in the Swedish Building, Avenue of Nations.



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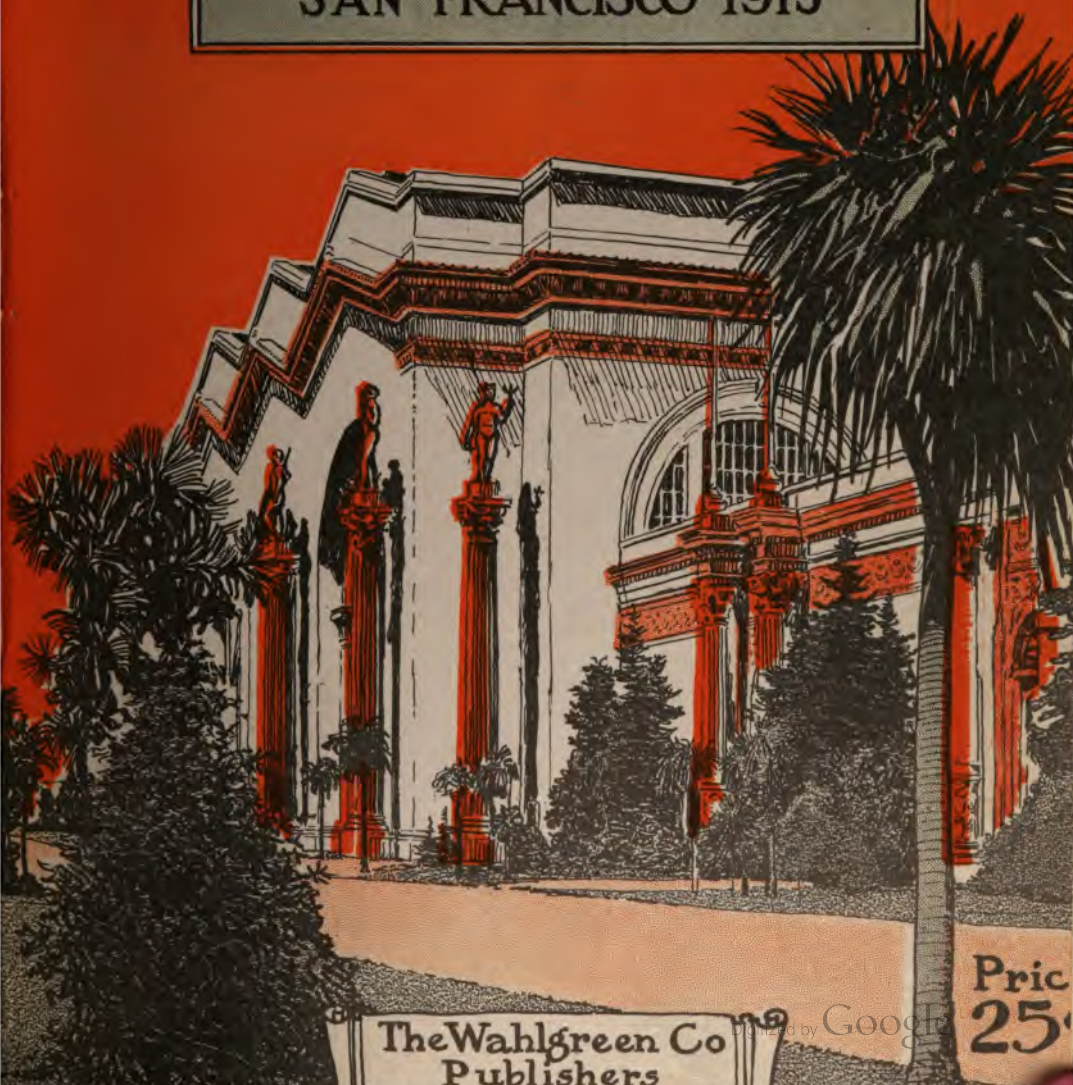
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PANAMA - PACIFIC
INTERNATIONAL EXPOSITION
SAN FRANCISCO 1915



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| Barber Asphalt Paving Co. | Philadelphia, Pa. | Roofing Material |
| Ceresit Waterproofing Co. | Chicago, Ill. | Waterproofing Material |
| C. H. & E. Mfg. Co. | Milwaukee, Wis. | Contractors' Equipment |
| Clyde Iron Works | Duluth, Minn. | Steam and Electric Hoists |
| Haslett Spiral Chute Co. | San Francisco, Cal. | Package Chutes |
| Iroquois Iron Works | Buffalo, N. Y. | Road Rollers |
| Muggley Differential Co. | New York, N. Y. | Differential Axles |
| Patent Scaffold Co. | New York, N. Y. | Safety Scaffolds |
| Owen Bucket Co. | Cleveland, Ohio | Clam Shell Buckets |
| Russell Grader Mfg. Co. | Minneapolis, Minn. | Road Machinery |
| St. Louis Steel Foundry Co. | St. Louis, Mo. | Manganese Track Work |
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**San Francisco Office, 320 California Street
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PANAMA-PACIFIC INTERNATIONAL EXPOSITION
SAN FRANCISCO
OFFICE OF THE PRESIDENT

July 10 1915.

To Whom It May Concern:

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A large, elegant handwritten signature in cursive script, likely belonging to the President of the Exposition Company.

President.



A handwritten signature in cursive script, likely belonging to the Secretary of the Exposition Company.

Secretary.

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PANAMA-PACIFIC INTERNATIONAL EXPOSITION
San Francisco, 1915

Official Catalogue of Exhibitors

Panama-Pacific International Exposition
San Francisco, California, 1915

CHARLES C. MOORE
President

Director-in-Chief
FREDERICK J. V. SKIFF

Division of Exhibits

ASHER CARTER BAKER, Director

Department H

AGRICULTURE

T. G. STALLSMITH, Chief

Preliminary Edition

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PREFACE

By Asher Carter Baker, Director of Exhibits

A modern, universal exposition is an encyclopedia of man's words and works. It is a collection of the achievements and productivity of man for examination by the International Jury of Awards, and constitutes a compact, classified, indexed compendium of man's activity in all phases, extending to the most material as well as to the most refined products. It is estimated that a million objects are exposed in the various displays installed within the palaces, in foreign, state and special pavilions. To properly classify, group and arrange alphabetically all the exhibits of an exposition of such international scope, is a task of such magnitude as to make it impossible to provide a complete catalogue of these exhibits on opening day of the Exposition.

This edition of the official catalogue is therefore presented preliminary to the revised and complete catalogue which will be issued within a few weeks, and to the preparation of which, in realization of its extraordinary value as a document of general and commercial reference, special care is being given.

The present volume, however, capably serves the purpose for which it is designed, as an early index of the infinite variety of interesting exhibits which are the concrete evidences of the industrial, educational and artistic advancement of the world.

Acknowledgment is hereby offered of the excellent co-operation received in the compilation of this catalogue from the Commissioners-General of participating nations, officers of State Commissions, individual exhibitors, and more particularly, the various officers of the Division of Exhibits, and the Official Catalogue Company, publishers of the catalogue.



PALACE OF AGRICULTURE

AGRICULTURE

Official Catalogue Department H

CLASSIFICATION OF EXHIBITS

Farm Equipment and Methods of Improving Lands.

Agricultural Implements and Farm Machinery.

Fertilizers.

Tobacco.

Appliances and Methods Used in Agricultural Industries.

Theory of Agriculture and Agricultural Statistics.

Vegetable Food Products and Agricultural Seeds.

Appliances for Gathering Wild Crops and Products Obtained.

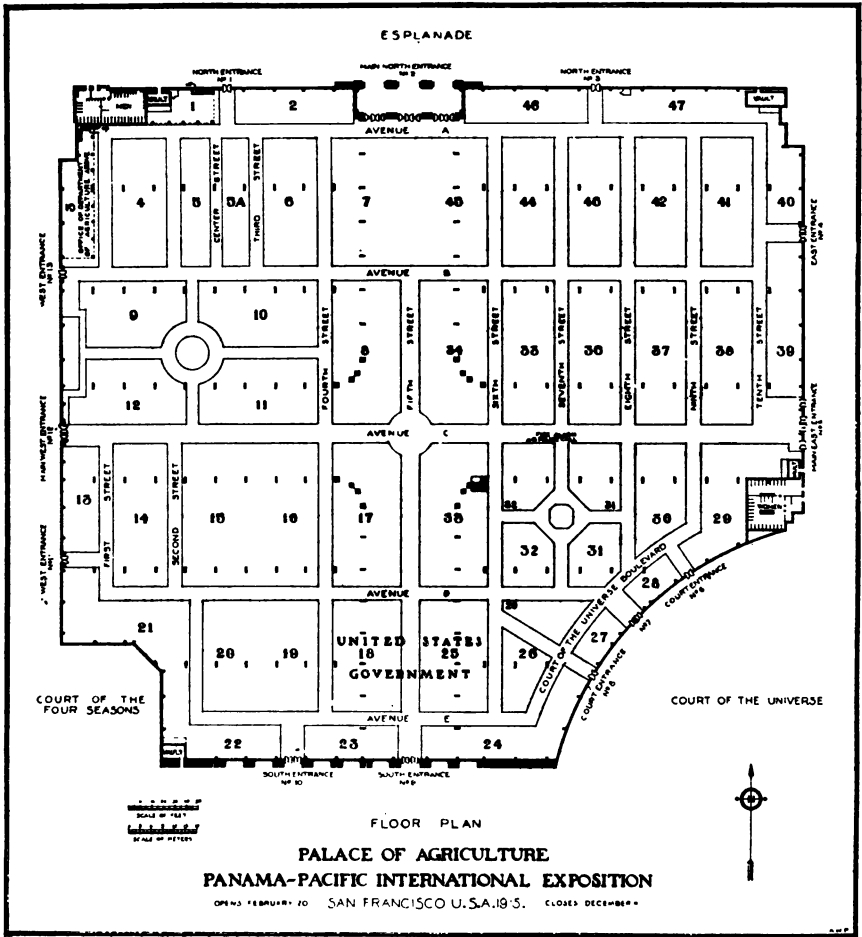
Animal Food Products.

Inedible Agricultural Products.

Useful Insects and Their Products, Injurious Insects and Plant Diseases.

Forestry.

Forest Products.



INTRODUCTION

Department of Agriculture

Installation of Exhibits

Palace of Agriculture, Palace of Food Products, House of Hoo
Hoo, Redwood Bungalow, Oregon Fir Bungalow,
Pacific Coast Condensed Milk Company Pavilion.

By **THOMAS G. STALLSMITH**
Chief of Department

As Agriculture is the most fundamental and varied of the Industries, the exhibition of all that pertains to agricultural pursuits and the production of food products is planned on a scale of magnitude and diversity that reflects its importance and multiform character.

The exhibits are contained principally in two Palaces—the Palace of Agriculture—embracing a floor area of over seven acres, and the Palace of Food Products covering about five and one-fourth acres. All of the exhibits are of the most interesting and instructive character. All the features are of extreme interest and importance in their bearing on the agricultural systems existing in all agricultural countries of the world.

Modern intensive, scientific agriculture in all branches is shown in comprehensive instructive detail.

From agriculture comes the products—the foodstuffs—that build the temple that enshrines the soul. The reduction of primary agricultural products to prepared nourishing foods, under the most scientific and sanitary methods is shown instructively, and the possibilities of educational value therefrom are incalculable.

Each Group, numbering twenty-two, and each Class, numbering one hundred and sixteen, covering the entire field of primary agriculture, food products, and forestry, are fully shown.

HOW TO LOCATE AN EXHIBIT

The Palace of Agriculture is laid out in blocks, which are consecutively numbered from 1 to 47, inclusive, as shown on the floor plan. The aisles are designated as streets (First to Tenth), running north to south, and as avenues (A to E), from east to west. To locate an exhibitor refer to the names, alphabetically arranged under the exhibit group to which each belongs in the official classification, and note the aisle location following each name. Street and Avenue signs are erected at their intersection on the corners of all blocks.

All Exhibits entered in this Catalogue are located in the Palace of Agriculture, **unless otherwise indicated** after the entry. The following are abbreviations used in this Catalogue to designate other Exhibit Palaces:

| | |
|----------------------------------|--------------|
| Fine Arts Palace..... | Fn. A. Pal. |
| Education Palace..... | Ed. Pal. |
| Liberal Arts Palace..... | Lb. A. Pal. |
| Manufactures Palace..... | Mfr. Pal. |
| Varied Industries Palace..... | V. I. Pal. |
| Machinery Palace..... | Mch. Pal. |
| Transportation Palace..... | Trns. Pal. |
| Agriculture Palace..... | Agr. Pal. |
| Food Products Palace..... | Fd. Pr. Pal. |
| Live Stock Palace..... | Lv. St. Pal. |
| Horticulture Palace..... | Hor. Pal. |
| Mines and Metallurgy Palace..... | Min. Pal. |

DEPARTMENT OF AGRICULTURE

Official Classification of Exhibits

GROUP 114

FARM EQUIPMENT AND METHODS OF IMPROVING LANDS

- Class 552. Specimens of various systems of farming.
 Class 553. Plans and models of farm buildings; general arrangement of stables, sheep-folds, barns, pig-sties, poultry-houses, breeding-grounds; special arrangements for breeding and fattening cattle; granaries and silos; furniture for stables, barns, kennels, etc.
 Class 554. Material and appliances used in agricultural engineering; reclaiming of marshes; drainage; irrigation. (See Class 462.)

GROUP 115

AGRICULTURAL IMPLEMENTS AND FARM MACHINERY

- Class 555. Implements, machines and appliances for agricultural preparation: machetas, axes, mattocks, grubbing hoes, spades, shovels, hand plows, etc.; walking plows, sulky plows, gang plows, etc.; rakes, rollers, harrows, clod crushers, etc.; stalk cutters, stalk rakes; stump pullers; manure spreaders.
 Class 556. Implements, machines and appliances for seeding; corn planters, seed drills, cotton planters, grain drills, broadcast seeders, etc.
 Class 557. Implements, machines and appliances for cultivation: hoes, cultivators, riding cultivators, cultivators propelled by steam or electricity.
 Class 558. Implements, machines and appliances for harvesting: sickles, scythes, grain cradles, reapers, binder twine, headers, mowers, corn harvesters, potato diggers, combined reapers and threshers propelled by animals, by steam or by electricity; machines and implements for threshing and cleaning, fanning mills, threshers and separators, clover hullers, corn shellers, threshers and separators with stationary or traction engines; wind stackers; fodder shock compressors, bunchers, etc.
 Class 559. Miscellaneous: farm wagons and farm carts; feed cutters, feed grinders, cider mills, machines for ginning and baling cotton, hay baling machinery; horse clipping machines; sheep shearing machines; wind mills, tanks, pumps and other water lifting apparatus for agricultural uses; machines for use on farms for grinding, weighing, etc. (See Class 462.)
 Class 560. Portable agricultural power generating machines; engines, horse powers, agricultural machinery moved by animals, water, air, or electricity. Internal combustion motors for agricultural purposes. Motor driven farm trucks and wagons.
 Class 561. Apparatus for preparing food for animals. Stock foods.

GROUP 116

FERTILIZERS

- Class 562. Preparing and preservation of manures. Commercial fertilizers. Use of sewage.

GROUP 117

TOBAÇCO

(Equipment, Processes and Products.)

- Class 563. Tobacco culture; raw material in stalk, leaf and seed.

GROUP 118

APPLIANCES AND METHODS USED IN AGRICULTURAL INDUSTRIES

- Class 567. Types of agricultural factories connected with farming; dairies; creameries; cheese factories; etc.
 Class 568. Oil mills; margarin factories. Grain elevators and appliances.
 Class 569. Workshops for the preparation of textile fibers.
 Class 570. Equipment for the breeding of birds and for the artificial hatching, raising or fattening of poultry. Poultry foods. Methods of and appliances for packing and transporting.
 Class 571. Market gardening. Buildings and appliances for growing, gathering, packing and marketing vegetables. Processes and equipment employed in the forced culture of vegetables and plants, with specimens of products.

GROUP 119

THEORY OF AGRICULTURE AND AGRICULTURAL STATISTICS

- Class 572. Studies relating to soil and water from an agricultural point of view.
 Class 573. Agronomic charts, climate charts, various agricultural charts. Registers of land tenures.
 Class 574. Rural population. Division of cultivated territory. Yield and returns. Census of farm animals.
 Class 575. Progress, especially since 1905. History of agriculture in its successive changes. History of fluctuations in prices of land, rents, labor, live stock, crops and animal products.
 Class 576. Institutions for the promotion and advancement of agriculture. Methods and products of experiment stations and laboratories. Societies, agricultural communities and associations. Loans on land. Agricultural insurance.
 Class 577. Legislative and administrative measures.
 Class 578. Books, papers, statistics, diagrams, periodical publications.

GROUP 120

VEGETABLE FOOD PRODUCTS AND AGRICULTURAL SEEDS

- Class 579. Cereals: wheat, rye, barley, maize, millet, oats, rice, buckwheat and other cereals in sheaves or in grain.
- Class 580. Legumes and their seeds: beans, peas, lentils, etc.
- Class 581. Tubers and roots and their seeds: potatoes, beets, carrots, turnips, radishes, etc.
- Class 582. Miscellaneous vegetables and their seeds: cabbages, peppers, artichokes, mushrooms, cresses, etc.
- Class 583. Sugar producing plants and their products: beets, cane, sorghum, etc.
- Class 584. Miscellaneous plants and their products: coffee, tea, cocoa, etc.
- Class 585. Oil producing plants and their products.
- Class 586. Forage, growing, green, cured or in silos; fodder for cattle; forage, grass and field seeds.

GROUP 121

APPLIANCES FOR GATHERING WILD CROPS AND PRODUCTS OBTAINED

- Class 587. Methods and implements for gathering the products of the soil obtained without culture.
- Class 588. Mushrooms; truffles; edible wild fruits.
- Class 589. Plants, roots, barks, leaves, fruits obtained without cultivation and used by herbalists, in pharmacy, for dyeing, manufacture of paper, oils, or for other purposes.
- Class 590. India rubber; gutta percha. Gums and resins.

GROUP 122

ANIMAL FOOD PRODUCTS

- Class 596. Dairy fittings and appliances, churns, butter workers, cans, pails, cheese presses, vats, separators, testers, pasteurizers, etc., including all fittings and appliances for the preparation, preservation, transportation, distribution and delivery of milk for the supply of cities and towns.

GROUP 132

INEDIBLE AGRICULTURAL PRODUCTS

- Class 646. Textile plants: cotton; flax and hemp in the straw, scutched or unscutched; ramie, phormium, tenax, vegetable fibers of all kinds.
- Class 647. Oil producing plants, in stalk or in seed.
- Class 648. Non-edible vegetable fats and oils.
- Class 649. Plants containing tannin, weeds and noxious plants.
- Class 650. Plants containing dyes, medicinal plants.
- Class 651. Hops, teasels, broomcorn, etc.
- Class 652. Wool, raw, washed or unwashed.
- Class 653. Packing house by-products.
- Class 654. Feathers, down, hair and bristles, etc.

GROUP 133

USEFUL INSECTS AND THEIR PRODUCTS, INJURIOUS INSECTS AND PLANT DISEASES

- Class 655. Systematic collections of useful and injurious insects.
- Class 656. Systematic collections of vegetable parasites from plants and animals.
- Class 657. Bees. Silkworms and other bombycids. Cochineal insects.
- Class 658. Appliances for rearing and keeping bees and silk worms. Bee and silkworm products; honey, wax, cocoons.
- Class 659. Appliances and processes for destroying plant diseases and injurious insects.

GROUP 134

FORESTRY

- Class 660. Forest geography: maps, statistics and general literature. Geographical distribution of forests, of forest types and tree species. Botanical collections: seeds, bark, foliage, flowers, fruit, bark and wood sections.
- Class 661. Planting: equipment and processes for tree collection; nursery practice, field planting and field sowing.
- Class 662. Management and utilization; equipment and processes for protection from fire, insects and disease; organization of protective forces, ranger stations, trail and telephone systems. Logging methods and equipment: transportation of logs; systems of cutting.
- Class 663. Indirect uses of forests: watershed protection; effect on climate and public health; prevention of erosion and shifting sand; use for windbreaks, for recreation purposes and as refuge for game.

GROUP 135

FOREST PRODUCTS

- Class 664. Lumber: equipment and processes used in cutting logs into lumber; drying, dressing and grading of lumber. Lumber grading rules.
- Class 665. Saw-mill and planing-mill products from re-manufacture of lumber: furniture woods, wagon stock, cooperage, boxes, pickets, shingles, doors, etc. Veneering and veneer-cutting machinery.
- Class 666. Forest by-products: tan bark and extract, naval stores, oils and distillates, charcoal, cork, dye woods, medicinal and textile barks, kiln dried wood, wood fuels, wood wool.

GROUP 114

FARM EQUIPMENT AND METHODS OF IMPROVING LANDS

- American Rolling Mills Co., Middletown, O. Model farm & silos. Min. Pal., 7th, bet. C&D
- Am. Sheet & Tin Plate Co., Pittsburgh, Pa. Roof. prod. & Mod. Farm. Av. D, Min. Pal.
- Am. Steel & Wire Co., Chicago, Ill. Wire fencing. Working Exh. Live Stock Dept.
- Armco Iron Culvert Manufacturers Association, Middletown, Ohio. Irrigation Gates and Pipe; Lennon Metal Flumes. Min. Pal., 7th St., bet. Avs. C & D.
- Armstrong Cork & Insulation Co., Pittsburgh, Pa. Cork Brick installed in Dairy Bldg., Live Stock Dept.
- Bacon Co., Edw. R., S. F. Cal. Col. Exh. Irrigation Mach. Mch. Pal., 4th & 5th, Avs. C&D.
- Champion Mfg. Co., Cedar Rapids, Ia. Farm Gates. Working Exh. Live Stock Dept.
- Columbia Steel Tank Co., Kansas City, Mo. Farm Utilities. Wkg. Exh. Live Stock Dept.
- De Laval Dairy Supply Co., San Francisco, Cal. Exhibit 3rd St., bet. Avs. A & B. Ideal green feed silo. Workg. Exh. Lv. Stk. Dept.
- Edwards, E. H. Co., S. F. Poultry Fence. Working Exhibit Live Stock Dept.
- Iron Clad Silo Co., Portland, Ore. Silo. Working Exhibit Live Stock Dept.
- James Manufacturing Co., Fort Atkinson, Wis. Exhibit 3rd St., bet. Avs. A & B. De Laval Dairy Supply Co., San Francisco agents. Barn equipment, stalls, stanchions and carriers. Working exhibit Live Stock Dept.
- Maytag Co., The, Newton, Ia. Automatic Waterers. Wkg. Exh. Live Stock Dept.
- McClure Lumber Co., Saginaw, Mich. Silo. Working Exhibit Live Stock Dept.
- Nevada, State of. Model Dairy Farm. Av. A, bet. 9th & 10th Sts.
- Norwich Automatic Feeder Co., New London, Conn. Feeding Apparatus. Live Stk. Dept.
- Pacific Tank & Pipe Co., San Francisco, Cal. Pacific Redwood and Fir Plain Silos. Working Exhibit in Live Stock Dept. Irrigation Wood Pipe and Tanks. Min. Pal., 6th St., bet. Avs. A & B.
- Pawling & Harnischfeger Co., Milwaukee, Wis. Mch. Pal., 4th & 5th Sts., bet. Avs. C & D. Drainage Machinery Equipment.
- Pickett, A. B., Houston, Texas. Patent Gate. Agriculture, outside space.
- Pittsburgh Steel Co., Pittsburgh, Pa. Wire fencing. Working Exh. Live Stk. Dept.
- Redwood Manufacturers Company, San Francisco. Farm Equipment. 15,000 gallon "Remco" Redwood Tank in operation; "Remco" Machine Banded Redwood Stave Pipe in operation; Miniature "Remco" Redwood Tank & Tower; Sections of "Remco" Pipe, Machine Banded & Continuous Stave. Installed in Block 36, Machinery Pal. Farm Equipment. Two 16x36-foot "Remco" Redwood Stave Silos. (Located at Dairy Barns opposite Stock Barns, in actual use.) Work'g Exh. Live Stock Dept. Farm Equipment. Miniature Tank and Silo in Contra Costa County Exhibit.
- Rock Island Mfg. Co., Rock Island, Ill. Live Stk. Waterers. Wkg. Exh. Live Stk. Dept.
- Spratt's Patent, Ltd., Newark, N. J. Kennel Furniture. Fd. Pr. Pal., 5th St., bet. Avs. D&E.

- U. S. Steel Corp. & Subsid. Cos., New York. Col. Iron & Steel Exh. Min. Pal., Av. D.
- Wood Bros. Silo & Mfg. Co., Lincoln, Neb. Silo Working Exhibit Live Stock Dept.

GROUP 115

AGRICULTURAL IMPLEMENTS AND FARM MACHINERY

- Alexander Fan & Propellor Co., Oakland, Cal. Windmill. Agriculture, outside space.
- American Seeding-Machine Co., The, Richmond, Ind. Grain drills, corn planters, seed drills, cotton planters. Av. C, cor. 4th St.
- Associated Manufacturers' Co., Waterloo, Ia. Gasoline engines. Av. B, cor. 2nd St.
- Bessemer Gas Engine Co., Grove City, Pa. Machinery Palace, 4th St., bet. Avs. D & E. Kerosene Motors for farms. Gas and Kerosene engines. Mch. Pal., 4th St., bet. Avs. D & E.
- Best Gas Traction Company, C. L., Oakland, Cal. Gas traction engines. Av. B, cor. 2nd St. Round wheel self-laying track types. Steel castings, carbon chrome, nickel and manganese.
- Carnegie Steel Co., Pittsburgh, Pa. Cotton Col. Iron & Steel Exh. Min. Pal., Av. D.
- Disston, H. & Sons, Inc., Philadelphia, Pa. Agricul. knives. Mfr. Pal., Av. C, cor. 6th St.
- Fairbanks-Morse Co., Chicago, Ill. Scales. Working exhibit in all Palaces and Live Stock.
- Famous Water Elevator Co., Denver, Colo. Irrigation device. 1st St., bet. Avs. A & B. Water elevator for irrigation purposes.
- Farquhar, A. B. & Co., Ltd., York, Pa. Agri. implements. Farm Mch. Av. A & 3d St.
- Frick Co., Waynesboro, Pa. Traction Engines, Threshing machines. Agr. Outside space.
- Graton & Knight Manufacturing Co., Worcester, Mass. Harvester Straps. Block 13, Palace of Machinery.
- Hercules Powder Company, San Francisco, Cal. Stump Pullers. Min. Pal., Av. B & 7th St. Explosives for stump blasting and tree pulling. Earth Augers, Subsoiling Bars.
- Hog Motor Company, Minneapolis, Minn. Stock feeding machine. Agr. outside space.
- Holt Manufacturing Company, The, Stockton, Cal. Manufacturers. Avs. A & B, bet. 4th & 5th Sts. Caterpillar farm and military tractors, Caterpillar wagons, Caterpillar harvesters; combined harvesters and threshers; land levelers and scrapers; horse and engine plows, disc and mold-board; disc and tooth harrows; sage brush plows.
- Hyde, Henry C. Company, San Francisco, Cal. Farm Lighting Machinery. See exhibit, Block 37, Machinery Hall.
- International Harvester Company of America, Chicago, U. S. A. Agr. Pal., 4th St., bet. Avs. B & C. Plows, Rakes, Rollers, Harrows, Clod Crushers, Stalk Cutters, Stalk Rakes, Manure Spreaders, Corn Planters, Seed Drills, Cotton Planters, Grain Drills, Broadcast Seeders, Walking Cultivators, Riding Cultivators, Reapers, Tedders, Mowers, Corn Harvesters, Combined Reapers and Threshers, Threshing Machinery, Corn Shellers, Binder Twine, Headers, Feed Cutters, Feed Grinders, Hay Baling Machinery, Pumps, Water Lifting Apparatus, Engines and Tractors.

Invincible Grain Cleaner Co., Silver Creek, N. Y. Grain Cleaning Machines. Mch. Pal.

Junior Monarch Hay Press Co., San Leandro, Cal. Hay Press, etc. 1st St., bet. Avs C&D.

Lauson Mfg. Co., John, New Holstein, Wis. Exhibit 3rd St., bet. Ave. A & B. De Laval Dairy Supply Co., San Francisco agents. Gasoline, kerosene and distillate engines.

Rotary Tractor Co., Los Angeles, Cal. Electric farm tractors. Agr. outside space.

Busnak, A. D., Philadelphia, Pa. Potato digging machine. Av. A & 2nd St.

Sanders, Newell, Plow Co., Chattanooga, Tenn. Plows. Av. B, cor. 2nd St.

Sigurd, C. G., San Jose, Cal. Weed cutter and mulcher. Av. A & 2nd St.

Simonds Mfg. Co., Fitchburg, Mass. Cane Knives. Mfr. Pal., 6th St., bet. Avs. C & D.

Smalley Manufacturing Co., Manitowoc, Wis. Ensilage cutter. Wkg. Exh. Live Stock Dept.

South Bend Chilled Plow Co., South Bend, Ind. Plows. Av. B, cor. 2nd St. Agricultural implements, plows, cultivators, planters, etc. Special attention given to making of special styles for export.

Sperry Flour Co., S. F., Cal. Stock foods. Fd. Pr. Pal., Avs. C & D, bet. 2nd & 3rd Sts.

Spratt's Patent, Ltd., Newark, N. J. Pet stk. foods. Fd. Pr. Pal., 5th St., bet. Avs. D&E.

Standard Gas Engine Co., S. F. Gasoline engines. Mch. Pal., Avs. E&F, bet. 1st & 2nd.

U. S. Steel Corp'n. & Subsidi. Cos., New York. Collective exhibit. Min. Pal., Av. D.

Viking Pump Co., The, Cedar Falls, Ia. 3rd St., bet. Avs. A & B. Rotary pumps. De Laval Dairy Supply Co., San Francisco agents.

Warren Axe & Tool Co., Warren, Pa., U.S.A. Axes and edged tools. Av. A, cor. 1st St. Axes and logging tools of all kinds.

UNITED STATES SECTION AGRICULTURE GROUP 117

TOBACCO CULTURE; RAW MATERIAL IN STALK, LEAF AND SEED

Kansas, State of. Collective exhibit of tobacco. Av. C, bet. 5th & 6th Sts.

Louisiana, State of. Collective exhibit of tobacco. Avs. B & C, bet. 8th & 10th Sts.

Virginia, State of. Tobacco exhibit. Av. A & 8th St.

GROUP 118

APPLIANCES AND METHODS USED IN AGRICULTURAL INDUSTRIES

Electric Specialty Co., Salt Lake City, Utah. Elec. incubators. 10th St., bet. Avs. A & B.

Jordan & Chapman Mfg. Co., Inc., Staunton, Va. Poultry trap nests. Wkg. Exh. Live Stock Dept.

Lo-Glo Electric Incubator Co., N. Y. Electric incubators. Mch. Pal., 1st St. & Av. D.

Marland, W. J., Oakland, Cal. Col. exh. Elec. incubators. Mch. Pal., 1st St. & Av. D.

Nevada, State of. Garden crops, photographs of dairy farms, etc. Av. A, bet. 9th & 10th.

Norwich Automatic Feeder Co., New London, Conn. Poultry Hoppers. Live Stk. Dept.

Rock Island Mfg. Co., Rock Island, Ill. Poultry waterers. Wkg. Exh. Live Stk. Dept.

Sperry Flour Co., S. F., Cal. Poultry foods. Fd. Pr. Pal., Avs. C & D, bet. 2d & 3d Sts.

Spratt's Patent, Ltd., Newark, N. J. Poultry foods & appliances. Fd. Pr. Pal., 5th St., bet. Avs. D & E.

Standard Electric Incubator Co., N. Y. Electric incubators. Mch. Pal., 1st St. & Av. D.

Victor Incubator Co., Decoto, Cal. Incubators and brooders. Av. A & 10th St.

GROUP 119

THEORY OF AGRICULTURE AND AGRICULTURAL STATISTICS

Barrett Mfg. Co., Frankford, Phil. Fertilizing results. Min. Pal., 7th St.

International Harvester Company of America, Chicago, U. S. A. Agr. Pal., 4th St., bet. Avs. B & C. Charts depicting changes in farming and development of farm machines and implements, methods and products of experiment stations. Societies, Agricultural Communities and Associations.

Louisiana, State of. Collective exhibit of maps, soil, samples, charts, etc. Avs. B & C, bet. 8th & 10th Sts.

Nevada, State of. Agricultural Experiments, Maps, etc. Av. A, bet. 9th & 10th Sts.

GROUP 120

VEGETABLE FOOD PRODUCTS AND AGRICULTURAL SEEDS

Dickinson, The Albert Co., Chicago, Ill. Agricultural seeds. Av. A, cor. 2nd St.

Idaho, State of. Collective exhibit of agricultural products. Avs. B & C, bet. 6th & 7th.

Illinois, State of. Collective agricultural exh. of grains & grasses. Av. C, bet. 4th & 5th.

Kansas, State of. Collective exh. of cereals, grasses, etc. Av. C, bet. 5th & 6th Sts.

Louisiana, State of. Collective exh. of grains and grasses. Avs. B & C, bet. 8th & 10th Sts.

Montana, State of. Collective exh. of agricultural products. Avs. A & B, bet. 8th & 9th.

Nevada, State of. Collective exh. of agricultural products. Av. A, bet. 9th & 10th Sts.

Oregon, State of. Collective exh. of agricultural products. Av. D, bet. 4th & 6th Sts.

Virginia, State of. Agricultural exhibit of grains and grasses. Av. A & 8th St.

Wisconsin, State of. Collective exh. of agricultural products. Av. A, bet. 6th & 7th Sts.

GROUP 122

ANIMAL FOOD PRODUCTS

Associated Manufacturers' Co., Waterloo, Ia. Cream Separators. Av. B, cor. 2nd St.

"Calf-Way" Milker Co., Chicago, Ill. Milking Machines. Av. B, cor. 1st St.

Creamery Package Mfg. Co., Chicago, Ill. Dairy Equipment. Av. A, cor. 2nd St.

Davis Milk Mach. Co., N. Chicago, Ill. Bottle fillers and cappers. 2d St., bet. Avs. A & B.

De Laval Separator Co., The, New York, N. Y. 3rd St., bet. Avs. A & B. Farm and factory sizes of: De Laval Cream Separators, De Laval Milk Clarifiers, De Laval Milking Machine, De Laval Emulsor, Ideal Sanitary Cream Coolers. De Laval Dairy Supply Co., San Francisco agents.

De Laval Dairy Supply Co., San Francisco, Cal. Exhibit. 3rd St., bet. Avs. A & B. Dairy Supplies & Equipments. Ideal Sanitary Cream Cooler.

Ford, The J. B. Co., Wyandotte, Mich. Cleaning materials for dairies, etc. Av. A, cor. 3d St.

Harris, Arthur & Co., Chicago. Milk Evap. apparatus. Pac. Coast Cond. Milk Co. Pav.

Hinman Milking Machine Co., Oneida, N. Y. Milking Machines. 2d St., bet. Avs. A & B.
Idaho, State of. Collective exhibit of cheese. Agr. Pal., Avs. B & C, bet. 6th & 7th Sts.
International Harvester Company of America, Chicago, U. S. A. Agr. Pal., 4th St., bet. Avs. B & C. Dairy Fittings and Appliances. Cream Separators, including all fittings and appliances for the separation, preservation and transportation of milk.
Mehring, Wm. M., Keymar, Md. Milking Machines. Av. A & 2nd St.
Skidd, The Chas. Mfg. Co., Chicago. Milk Cooler. Pac. Coast Cond. Milk Co.'s Pav.
Vermont Farm Machine Co., Bellows Falls, Vt. Dairy Equipment. Av. A, cor. 4th St.

GROUP 132

INEDIBLE AGRICULTURAL PRODUCTS

Louisiana, State of. Collective exhibit of cotton and fibre crops. Avs. B & C, bet. 8th & 10th Sts.
Nevada, State of. Collective exhibit of wool and cotton. Av. A, bet. 9th & 10th Sts.

GROUP 134

FORESTRY

Bacon Co., Ed. E., S. F., Cal. Collective Exhibit Logging Blocks & Hooks. Mch. Pal., 4th & 5th Sts., Avs. C & D.
Clyde Iron Works, Duluth, U. S. A. Logging Machinery. Exhibit installed in Palace of Machinery, 5th St. & Av. H.
Simonds Mfg. Co., Fitchburg, Mass. Logging Tools. Mfr. Pal., 6th St., bet. Avs. C & D.
Warren Axe & Tool Company, Warren, Pa. Axes & Logging Tools. Av. A, cor. 1st St. Cant hooks, chains, and edged tools.

Washington, State of. Photos, maps, etc. Av. A, bet. 6th & 7th Sts.
Young, C. J., Iron Works, Seattle, Wash. Machinery Pal., 4th & 5th Sts., bet. Avs. C & D. Logging Blocks and Equipment.

GROUP 135

FOREST PRODUCTS

California Barrel Company, San Francisco, Cal. General Cooperage. Av. C, cor. 4th St. Manufacturers and Exporters of Barrels, Kegs, Kits and Pails of all sizes for Dry or Liquid Products. Also High Grade Shooks made from North American Pacific Coast Hard Douglas Fir.
California Redwood Assn., S. F., Cal. Finished Lumber in Bldg. in Hort. Gardens.
California Sugar & White Pine Co., S. F., Cal. Finished Lumber in Bldg. in Hort. Gardens.
Disston, Henry & Sons, Inc., Phil., Pa. Lumbering Saws. Mfr. Pal., Av. C, cor. 6th St.
Louisiana, State of. Collective exhibit of forest products. Avs. B & C, bet. 8th & 10th Sts.
Simonds Mfg. Co., Fitchburg, Mass. Saws for Lumber Mills. Mfr. Pal., 6th, bet. Avs. C&D.
Singer Sewing Machine Company, New York, N. Y. Woods for Veneering. Veneering laminated woods and finishing of same as expressed in sewing machine cabinet work. See exhibit, Varied Industries Building, 1st St., Av. D, 2nd St., Av. E.
Washington, State of. Collective Exhibit of mfg. lumber products. Av. A, bet. 6th & 7th.
West Coast Lumber Mfr's Assn., Tacoma, Wash. Finished Lumber in Hort. Gardens.

STATES' EXHIBIT SECTION

ARKANSAS.

Location: Av. B, bet. 6th & 7th Sts.
 The complete list of exhibits from Arkansas in the Department of Agriculture will appear in revised edition of the Catalogue.

CALIFORNIA.

Location: Avs. A & B, bet. 7th & 8th Sts.
 The complete list of exhibits from California in the Department of Agriculture will appear in revised edition of the Catalogue.

COLORADO.

Location: Av. B, bet. 5th & 6th Sts.
 The complete list of exhibits from Colorado in the Department of Agriculture will appear in revised edition of the Catalogue.

IDAHO

Location: Avs. B & C, bet. 6th & 7th Sts.

GROUP 120

Aberdeen Expmt. Station—Aberdeen. Wheat.
Adams, A.—Julietta. Wheat.
Ainscaugh, Wm.—Preston. Barley, Oats.
Allen, Brent, Teton—Timothy.
Allen, J. H. Seed Co.—St. Anthony. Wheat.
Alred, M. A.—Mapleton. Oats.
Anderson, C. B.—Caldwell. Oats.
Anderson, J. G.—Winchester. Alfalfa, Grass.
Anderson, B. K.—Cambridge. Barley, Wheat.
Anderson, W.—Moscow. Timothy.
Austin, A. S.—Twin Falls. Potatoes.
Babb, D. T.—Rock Flat. Grass.
Balbach, Wm.—New Meadows. Alfalfa, Oats.
Ballinger, Ansell—Fruitland. Corn.

Ballinger, Amsey—Fruitland. Corn.
Barrenger, T. C.—Weiser. Corn.
Barnhill, E. W.—Rock Flat. Oats.
Bartholomew, J. A.—Parma. Rye.
Barcley, A. L.—Cambridge. Oats.
Beasley, J. H.—Idaho Falls. Oats, Potatoes.
Beck, E. A.—Twin Falls. Potatoes, Wheat.
Bice, G. W.—Twin Falls. Wheat.
Beaty, Sam—Kimberly. Wheat.
Blunk, L. A.—Murphy. Corn.
Berrier, G. W.—Athol. Grain.
Bonwell, M.—Curry. Potatoes.
Boone, A. C.—Twin Falls. Potatoes.
Brown—New Meadows. Peas.
Buhl, Leslie—Cambridge. Wheat.
Busch, G. W.—Midvale. Wheat.
Eusk, A.—Athol. Wheat.
Burrongs, Chas.—Athol. Wheat.
Bullock, J. H.—Pocatello. Wheat.
Buckle, J.—Hayden Lake. Wheat.
Bubb, Fred—Belmont. Timothy.
Burnett, H.—Idaho Falls. Potatoes.
Butler, Wm.—Twin Falls. Potatoes.
Buel, W. O.—Filer. Potatoes.
Burton, O. C.—Richfield. Oats.
Bubb, C. W.—New Meadows. Alfalfa.
Buckhalter, C. S.—Kimberly. Barley.
Busling, Mrs.—Payette. Barley, Oats, Wheat.
Butterfield Live Stock Co.—Weiser. Corn.
Callert, E. J.—Twin Falls. Wheat.
Campbel, C.—New Meadows. Wheat.
Campbel, O. H.—Bonners Ferry. Potatoes.
Chamberlin, F. E.—Twin Falls. Potatoes.
Cheek, Wm.—Kimberly. Potatoes.
Church, B. E.—Richfield. Grain.
Costello, J.—Twin Falls. Potatoes.

- Craig, Mt. Lumber Co.—Winchester. Barley.
 Davis, A. A.—Twin Falls. Potatoes.
 Day, W. E.—Greenleaf. Corn.
 Dalley, J.—Oakley. Wheat.
 Dewey, J. C.—Emmett. Corn.
 Dewey, H. B.—Emmett. Corn.
 Donnou, D.—Weiser. Corn.
 Dove, E.—Richfield. Wheat.
 Dunham, J. W.—Cambridge. Wheat.
 Dunnaway, J. H.—Twin Falls. Potatoes.
 Durfee, J. F.—Filer. Potatoes.
 Duster, C.—Moscow. Oats, Wheat.
 Eckley Ranch—Winchester. Wheat.
 Edgerton, E. L.—Emmett. Corn.
 Engle, D.—Richfield. Alfalfa, Wheat.
 Engle, J.—Richfield. Wheat.
 Erhart, G. A.—Filer. Potatoes.
 Erwin, T.—Twin Falls. Barley, Clover.
 Fargo Farmers' Club—Fargo. Alfalfa Seed.
 Ferrel, E.—Weiser. Oats.
 Fike, F.—Nez Perce. Wheat.
 Fitzpatrick, J.—Bonners Ferry. Potatoes.
 Fletcher, J.—Richfield. Wheat.
 Foster & Co.—Richfield. Oats.
 French, Permeal—Richfield. Oats.
 Frohm, Wm.—Star. Corn.
 Gamage, C. L.—Emmett. Fetireta.
 Gabel, S.—Twin Falls. Oats.
 Gearhart, W.—Star. Corn, Potatoes.
 Gilbert, C. F.—Homedale. Clover.
 Gilden, J. S.—Cambridge. Barley.
 Gilmore, W. B.—Payette. Potatoes.
 Glenn, S.—Boise. Oats.
 Gooding Experiment Station—Gooding. Oats.
 Gordon, N.—Payette. Wheat.
 Gorzen, J. F.—Cambridge. Barley.
 Green, Jos. A.—Richfield. Oats.
 Hackett, T.—Athol. Alfalfa.
 Hammond, C. C.—Parks. Corn.
 Hanson, Jas. B.—Tetonia. Clover.
 Harding, P. M.—Nez Perce. Clover.
 Hark, J.—Twin Falls. Potatoes.
 Hardin, W. F.—Kimberly. Wheat.
 Haskin, F. S.—Aberdeen. Barley.
 Hawarth, C.—Star. Corn, Potatoes.
 Hawks, Wm.—Preston. Oats, Potatoes.
 Hayes, B. F.—Twin Falls. Clover.
 Hazel, J.—Kimberly. Wheat.
 Heck, F.—New Meadows. Clover.
 Henry, J. J.—Twin Falls. Potatoes.
 Heron, J.—Twin Falls. Potatoes.
 Heritage, J. F.—Athol. Corn.
 Hewitt, D. J.—Winchester. Barley, Oats.
 Hibner, W. E.—Preston. Oats.
 Hills, A.—Filer. Potatoes.
 Horner, Wm.—Twin Falls. Potatoes.
 Hoops, G. S.—Richfield. Oats.
 Hoover, Walter—Nez Perce. Oats, Wheat.
 Hughes, James—Twin Falls. Potatoes.
 Idaho Insane Asylum—Blackfoot. Clover.
 Idaho Industrial Training School—St. Anthony. Oats, Potatoes, Corn.
 Ireland, H. A.—Caldwell. Corn.
 Irwin, T. E.—Wheat.
 Jackey, W. A.—Twin Falls. Potatoes.
 Jackson, C. J.—Parma. Corn, Wheat.
 Jacobson, A.—Richfield. Wheat.
 Jacobson, E.—Richfield. Wheat.
 Jacobs, T. F.—Nez Perce. Barley, Wheat.
 Jagler, J. H.—Coeur d'Alene. Oats, Wheat.
 James, Walter—Bonners Ferry. Potatoes.
 Jinkens, T. B.—Richfield. Barley.
 Johnson, A. A.—Winchester. Clover, Oats.
 Johnson & Anderson—Winchester. Grain.
 Johnson, Chester A.—Richfield. Alfalfa.
 Johnson, G.—Richfield. Barley.
 Johnson, Ray—Caldwell. Corn.
 Johnson, John P.—Twin Falls. Potatoes.
 Johnson, Mark—Richfield. Wheat.
 Johnson, Quiet—Richfield. Barley, Timothy.
 Jones, D.—Idaho Falls. Oats.
 Jones, J. W.—Twin Falls. Potatoes.
 Keene, L.—Moscow. Timothy.
 Keene, La Fayette—Kendrick. Oats, Wheat.
 Kent, A. J.—Bonners Ferry. Potatoes.
 Kent, M. L.—Moscow. Wheat.
 Kern, Robt. & Matt—Wheat.
 Kincaid, Lewis—Ilo. Barley.
 Kingsbury, Percy—Twin Falls. Potatoes.
 Kissinger, J. B.—Viola. Alfalfa.
 Kneutson, A.—Harrison. Oats, Timothy.
 Kneutson Ranch—Harrison. Alfalfa, Clover.
 Laferty, Charley—Bonners Ferry. Potatoes.
 Larsen, John A.—Preston. Oats.
 Law, J. O.—Oakley. Potatoes.
 Leagers, A.—Wheat.
 Leger, Thos.—Midvale. Wheat.
 Leichter, J. B. & Sons—Twin Falls. Potatoes.
 Leslie, Henry—Star. Corn, Potatoes.
 Lewis, J. L.—Cambridge. Barley, Wheat.
 Lewis, L. L.—Cambridge. Barley.
 Lind, Vance—Twin Falls. Potatoes.
 Larkin, Eugene—Barley.
 Madsen, E. W.—Payette. Wheat.
 Machey, John—Wheat.
 Madsen, E. W.—Payette. Oats.
 Manthey, Robert J.—Nez Perce. Barley.
 Maples, Henry—Barley.
 Martin, Earl—Star. Potatoes.
 Martens, T. E.—American Falls. Wheat.
 Martin, Simon—Idaho Falls. Barley, Wheat.
 McComas, F. V.—Winchester. Grain, Vetch.
 Matheny, J. G.—Midvale. Wheat.
 McKnight, Wm.—American Falls. Wheat.
 McOmber, A. H.—Perma. Corn.
 McWalters, Jerome—Potatoes.
 Michewait, M. W.—Twin Falls. Barley.
 Mesa Orchards—Mesa. Potatoes.
 Mojl, W. F.—Athol. Oats.
 Mullens Ranch—Iona. Oats.
 Muller, Gus—American Falls. Wheat.
 Musser, H. E.—Filer. Potatoes.
 Nelson, S.—Barley, Wheat.
 Nelson, Warren T.—New Plymouth. Corn.
 Nicola, I. M.—Nampa. Wheat.
 Olsen, E.—Barley.
 Osborne, J. C.—Winchester. Clover.
 Parker, J. C.—Rye.
 Partner, L. G.—Aberdeen. Potatoes.
 Parma Milling & Elevator Co.—Parma. Alfalfa, Clover.
 Paulson, C. O.—Richfield. Clover, Wheat.
 Payne, Chas.—Caldwell. Corn, Millet.
 Peckman Bros.—Wilder. Grain.
 Perrine, Chas.—Twin Falls. Peas.
 Peterson Bros.—Richfield. Wheat.
 Pierce, J. M.—Berger. Grain.
 Powell, Joe—New Meadow. Barley.
 Preston, C. H.—Churchill. Potatoes.
 Reagan, S. A.—Boise. Rye.
 Redman, D.—Twin Falls. Barley, Beans.
 Redman, H. W.—Twin Falls.
 Richards, T.—Wheat.
 Robinson, W. S.—Alfalfa, Clover.
 Root, M. L.—Athol. Alfalfa, Clover, Oats.
 Royston, Lafe—Fruitland. Corn.
 Rucker, Mrs. P & Son—Parma. Oats, Wheat.
 Sessions, J. W.—Richfield. Wheat.
 Shaw, James—Weiser. Corn.
 Shaw, S. D.—Twin Falls. Corn.
 Shaw, A.—Oats.
 Shubert, J. F.—Winchester. Rye.
 Simans, J. W.—Pocatello. Timothy.
 Smith, Andrew—Payette. Corn.
 Smith, Ray—Star. Corn, Potatoes.
 Snyder Farm—Twin Falls. Potatoes.
 Snyder, L. A.—Twin Falls. Potatoes.
 Snyder, A. J.—Springfield. Grain.
 Spainhower, Floyd—Fruitland. Corn, Oats.
 Sparks, Grant L.—Moscow. Wheat.
 Starr, W. S.—Twin Falls. Potatoes, Grain.
 Straun, Clarence—Fruitland. Corn.
 Strecker, C. A.—Antelope. Barley.
 Taylor, Joe—Idaho Falls. Oats, Potatoes.
 Taylor, W. C.—Richfield. Oats.
 Teton High School—Teton. Grain, Potatoes.
 Thomas, C. B.—Weiser. Corn.

Thomas, Chas. F.—Nex Perce. Barley, Wheat.
 Thometz, M. A.—Twin Falls. Wheat.
 Thometz & Son—Twin Falls. Potatoes, Grain.
 Thompson, J. P.—Moscow. Wheat, Timothy.
 Tobey, C. A.—Twin Falls. Potatoes.
 Tobias, C. C.—Caldwell. Corn, Wheat.
 Twin Falls Expt. Station—Twin Falls. Wheat.
 Twin Falls High School—Twin Falls. Potatoes.
 Utah Idaho Sugar Co.—Idaho Falls. Oats.
 Vahlberg, David—Emmett. Corn.
 Vance, Harry—Twin Falls. Potatoes.
 Vystricil, A. F.—Roberts. Grain, Potatoes.
 Wallen, Frank—Moscow. Oats.
 Ware, Frank—Idaho Falls. Oats.
 Walters, H. B.—Filer. Potatoes.
 Wells, E. N.—Alfalfa, Barley.
 Weiser Grain & Feed Co.—Weiser. Grain.
 White, Bob—Caldwell. Wheat.
 Whiffen, C. W.—Caldwell. Wheat.
 Whitting, J. H.—Wheat.
 Wiley, H. K.—Springfield. Alfalfa.
 Wilson, Alex.—Boise. Corn.
 Williams Bros.—Barley.
 Wilson, Kirt—Kimberly. Potatoes.
 Wilson, J. T.—Blackfoot. Peas.
 Willis, J.—Wheat.
 Williams, M. J.—Athol. Rye.
 Winters, H. C.—Twin Falls. Potatoes.
 Winslow, Merle—Greenleaf. Corn.
 Winslow, W. J.—Greenleaf. Clover, Corn.
 Wones, M. A.—American Falls. Wheat.
 Woodward, Ivan—Franklin. Oats.
 Worthington, S. P.—Wheat.
 Wylie, A. H.—Aberdeen. Potatoes.
 Yost, Joe—Midvale. Wheat.
 Youkum, Hue—New Meadows. Oats.
 Young, C. W.—Payette. Oats.
 Young, C. W.—Fruitland. Corn.
 Young, Lambert—Fruitland. Corn.
 Young, L. L.—Nampa. Grain, Potatoes.

GROUP 122

Clover Leaf Cheese Factory—Buhl. Cheese.
 Meridian Cheese Factory—Meridian. Cheese.
 Parma Cheese Factory—Parma. Cheese.

INDIANA

Location: Ave. B, bet. 9th & 10th Sts.

GROUP 120

Brown, C. A.—Franklin. Corn.
 Byers, E. E.—Shadeland. Corn.
 Carter, M. M.—Greensburg. Corn.
 Carter, O. E.—Seymour. Corn.
 Constable, E. L.—Goodland. Oats.
 Donmoyer, R. W.—South Bend. Corn.
 Drybread, J. Walter—Edinburgh. Corn.
 Egnew, Arthur S.—Chrisney. Corn.
 Enmundson, L. W.—Balbek. Corn.
 Fitch, W. H.—Spades. Corn.
 Fisher, Eugene—La Grange. Grasses, grains.
 Gast, A. A.—Akron. Corn.
 Gleason, M. K.—Indianapolis. Grasses.
 Hahan, Louis—Spades. Sugar cane.
 Henry, W. B.—Winamac. Corn.
 Hollingsworth, P. O.—New Augusta. Broom corn, millet.
 Hudson, F. E.—Howe. Oats.
 Isley, Joseph C.—Flat Rock. Corn.
 Isley, Louis M.—Flat Rock. Corn.
 Jessup, Wallace—Friendswood. Corn.
 Johnson, E. E.—Dale. Wheat.
 Kerlin, Frank—Rockfield. Corn.
 Kerlin, G. L.—Franklin. Corn, wheat.
 Kerlin, J. W.—Rockfield. Corn, wheat.
 Kerlin & Snoeberger—Rockfield. Corn.
 Kerlin, W. F.—Rockfield. Corn.
 Livingston, Wm.—Worthington. Corn.
 Lux, Ed.—Shelbyville. Corn.
 Lux, John—Plainfield. Corn.
 Lux, Peter—Shelbyville. Corn.

McKinney, Glenn—Wingate. Corn.
 McMullen, Guy—Idaville. Corn.
 Mazing, H.—Greensburg. Corn.
 Mundell, Jacob—Thorntown. Corn.
 Mundell, J. O.—Thorntown. Wheat.
 Mundell, M. A.—Rhoentown. Oats.
 Neff, Joseph—Marion. Corn.
 Orme, Hence—Greenwood. Corn.
 Pruitt, Chas. F.—Edinburg. Corn.
 Pruitt, A. W.—Edinburg. Corn, wheat.
 Pruitt, M. D.—Edinburg. Corn.
 Reddick, Albert—Arlington. Corn.
 Rodgers, Will—Edinburg. Corn.
 Sauerman, Geo. J.—Crown Point. Grain, grasses.
 Short, Chas. S.—Greensburg. Corn.
 Sefton, Elmer—Greensburg. Corn.
 Smith, C. A.—Whiteland. Corn.
 Smith, E. E.—Franklin. Corn.
 Smiley, W. G.—Greensburg. Corn.
 Steinbrook, Everett—Franklin. Corn.
 Steinbrook, Geo. W.—Franklin. Corn.
 Steinbrook, James—Franklin. Corn.
 Steinbrook, E. L.—Edinburg. Corn.
 Stephens, Homer—La Fountaine. Oats.
 Steinbrook, V. P.—Shelbyville. Corn.
 Stout, Ira—Sulphur Springs. Oats.
 Swain, W. O.—Arlington. Corn.
 Swallow, Mel—Rockport. Corn.
 Swallow, Frank—Rockport. Corn.
 Thornburg, Ernest—Winchester. Grain.
 Tilson, Harry—Franklin. Corn.
 Troyer, A. F.—La Fountaine. Corn.
 Troyer, C. E.—La Fountaine. Corn.
 Tritch, Arthur J.—Corunna. Wheat, oats.
 Ulrey, W. J.—New Richmond. Corn.
 Vogler, L. A.—Hope. Corn.
 Vogler, L. A.—Hope. Corn.
 Vogler, L. M.—Hope. Corn.
 Wilson, John E.—Wingate. Corn.
 Wilson, John M.—Brown Valley. Corn.

ILLINOIS

Location: Ave. C, bet. 4th & 5th Sts.

GROUP 120

Illinois, State of—Agricultural exhibit of grains and grasses.
 Illinois Corn Growers—Putnam Co. Complete agricultural exhibit of cereals.
 University of Illinois—Champaign. Complete agricultural exhibit of cereals.

IOWA

Location: Av. C, bet. 4th & 5th Sts.

The complete list of exhibits from Iowa in the Department of Agriculture will appear in revised edition of the Catalogue.

KANSAS

Location: Ave. C, bet. 5th & 6th Sts.

GROUP 117

Leavenworth County—Tobacco.

Shawnee County—Tobacco.

GROUP 120

Kansas, State of—Collective exhibit of the following counties, consisting of cereals, grasses, vegetables, roots and tubers, legumes, etc.:

Allen County.
 Barber County.
 Butler County.
 Clark County.
 Cowley County.
 Crawford County.
 Elk County.
 Ellis County.
 Ford County.
 Gray County.

Harper County.
 Harvey County.
 Kingman County.
 Kiowa County.
 Labette County.
 Lyons County.
 Mead County.
 Montgomery County.
 Morton County.
 Pawnee County.
 Pratt County.
 Reno County.
 Rice County.
 Riley County.
 Sedgewick County.
 Summer County.
 Woodson County.
 Experiment Station — Manhattan, Kan.
 Cereals.

LOUISIANA.

Location: Avs. B & C, bet. 8th & 10th Sts.

The complete list of exhibits from Louisiana in the Department of Agriculture will appear in the revised edition of the Catalogue.

MASSACHUSETTS.

Location: 10th St., bet. Avs. B & C.

The complete list of exhibits from Massachusetts in the Department of Agriculture will appear in revised edition of the Catalogue.

MONTANA

Location: Avs. A & B, bet. 8th & 9th Sts

GROUP 120

Allard, Joseph—Ignatius. Oats.
 Applebury, C.—Corvallis. Wheat
 Applebury, James—Corvallis. Wheat.
 Axtel, C. E.—Salesville. Bromus inermis.
 Bailey & Dorr—Hamilton. Oats, peas.
 Bair, James—White Sulphur Springs. Clover, alfalfa.
 Baker, M. H.—Libby. Clover.
 Barnes, C. M.—Hamilton. Potatoes.
 Bartlett, J. D.—Simms. Wheat.
 Bartlett, J. D.—Troy. Clover
 Beck, John—Bozeman. Wheat.
 Beck & Smith—Bozeman. Wheat.
 Beckwith, George—St. Ignatius. Flax.
 Billings Polytechnic Institute — Billings.
 Beans, millet, corn.
 Bennett, James—Warm Springs. Timothy.
 Benninger, Wm.—Anaconda. Timothy. Clover, alfalfa.
 Bisson, Wm.—Missoula. Wheat.
 Blakeley, S. F.—White Sulphur Springs. Alfalfa.
 Bohart, W. O.—Bozeman. Blue grass.
 Bohn, H. O.—Warm Springs. Oats.
 Bolin, C. F.—Rosebud. Wheat, oats.
 Bowman, A. H.—Hardin. Timothy.
 Burch, G. F.—St. Ignatius. Wheat.
 Burns, A. H.—Libby. Timothy.
 Briggs, H.—Victor. Wheat.
 Carney, Pat.—Waterloo. Clover, wheat, potatoes, alfalfa, native grasses.
 Carney, T. E.—Waterloo. Wheat.
 Cechlovsky, Jos.—Libby. Clover.
 Chamberlain, Jos.—White Sulphur Springs. Clover, timothy.
 Cog Dell, Douglas—Whitehall. Rye.
 Collins, Rich.—White Sulphur Springs. Alfalfa.
 Cordry, Ed.—Bozeman. Wheat.
 Cottrell, Mrs. Ida—Florence. Potatoes.
 Cunningham, J. E.—St. Ignatius. Wheat, oats, barley.
 Cunningham, G. R.—St. Ignatius. Oats.
 Daley, Elmer—Bynum. Flax, wheat.
 Daniels, Jr., D. C.—Canton. Wheat.
 Dart, Hugh—Dillon. Potatoes.
 Delmoe, Vincent—Whitehall. Clover, bromus inermis, timothy.
 Deschamps, Tony—Missoula. Oats.
 Deschamps, E.—Missoula. Wheat.
 Donohue, J. F.—Whitehall. Alfalfa, clover.
 Douglas, Bert—Rexford. Potatoes.
 Dyer, J. L.—Helena. Flax, clover, potatoes.
 Early, Noah—Lamina. Wheat.
 Edinger, Carter—Dillon. Potatoes.
 Edinger, George—Dillon. Oats, wheat, barley.
 Eichorn, Jos.—Miles City. Timothy, clover.
 Eiker, E. E.—Huntley. Timothy, corn.
 Ekman, Ed.—Rollins. Potatoes.
 Emmelcamp, Thos.—Manhattan. Barley.
 Fairweather, George—Deer Lodge. Clover.
 Ferguson, J. C.—Reichele. Potatoes.
 Disher, Robert—Deer Lodge. Oats.
 Fitter, Henry—Lima. Timothy.
 Flaherty, John—Cold Spring. Clover, timothy.
 Fleming, G. F.—Suffolk. Wheat.
 Fleming, Wm.—Bozeman. Timothy, clover.
 Fowle, George—White Sulphur Springs. Wheat.
 Franklin, Charles—Wise River. Clover.
 Fredericks, John—Libby. Alfalfa.
 Gattis, Robert H.—Creston. Potatoes.
 Gilbertson, H. M.—Kalispell. Wheat.
 Goodall, Charles W.—Park City. Wheat.
 Gordon, J. H.—Silver Star. Flax, rye.
 Grady, J. A.—Terry. Potatoes.
 Grant Bros.—Salesville. Clover, alfalfa, wheat.
 Grenier, Jos.—St. Ignatius. Oats, wheat.
 Hackman, Charles—Missoula. Wheat.
 Halford, J. F.—Bozeman. Oats, wheat, clover.
 Hamel, Pete—Missoula. Wheat.
 Hamilton, Viola—Libby. Clover.
 Hansen, C. A.—Eureka. Clover.
 Hardman, D. E.—Simms. Alfalfa.
 Hartman, W. J.—Bozeman. Wheat.
 Haynes, O. G.—Miles City. Wheat.
 Haynes, Thos.—Creston. Alfalfa, vetch, potatoes, wheat.
 Herbst, A. C.—Libby. Timothy, clover, flax, orchard grass.
 Hines, L. E.—Bozeman. Timothy.
 Hogan, Geo. R.—Bozeman. Timothy, clover, clover seed.
 Ingram, Mrs. D.—Dilon. Barley.
 James, J. W.—Anaconda. Wheat.
 Jennings, L. D.—Salesville. Clover.
 Jergenson, Jas. A.—Whitehall. Alfalfa, clover, oats.
 Johnson, Mrs.—Hamilton. Wheat.
 Jones, Mrs. J. O.—Bozeman. Oats.
 Jones, Orville—Bozeman. Wheat.
 Jones, Robert—Wisdom. Clover, blue grass, timothy, native grasses.
 Jones, W. C.—Wise River. Clover.
 Karman, F. W.—Saco. Potatoes.
 Keifer, John—Bozeman. Bromus inermis, blue grass.
 Kennison, John—Dell. Timothy.
 Kirchner, Fred—Lewistown. Wheat, oats, grasses, clover.
 Kleinhessellink, D. J.—Big Timber. Timothy.
 Lang, J. E.—Salesville. Timothy, blue grass.
 Legerene, John—Helena. Wheat.
 Lewis, Mrs. J. K.—White Sulphur Springs. Oats, wheat.
 Lewis, G. A.—Bozeman. Clover, timothy.
 Lindsay, George—St. Ignatius. Oats.
 Long, Clark E.—Carter. Wheat.
 Lounsbury, A.—Libby. Alfalfa.
 Magee, Phil.—Lolo. Oats.
 Mangar, Rich.—White Sulphur Springs. Alfalfa, timothy.
 Manis, T. J.—Big Timber. Oats.
 Martinell, E. M.—Dell. Clover.
 Matt, H.—Aries. Oats.
 Meany, W. M.—Plains. Wheat.
 Meloy, P. J.—Townsend. Wheat.

Miles, George—Bozeman. Timothy, barley.
 Miller & McCann—Stacey. Oats.
 Miller, U. S.—Hardin. Flax.
 Milne, E.—Big Timber. Potatoes.
 Monforton, Ernest—Salesville. Wheat.
 Moore, Dall—Wise River. Clover.
 Myse, C.—Reed Point. Flax.
 McDonald, Fred—White Sulphur Springs. Wheat.
 McDonnell, Ernest—Bozeman. Clover, timothy.
 McFayden, J. L.—Dillon. Wheat.
 Nash & Wassenaar—Bozeman. Barley.
 Nash, J. P.—Bozeman. Wheat, oats.
 Nelson, Theo.—Dillon. Oats.
 Newgard, Fred—Ronau. Potatoes.
 Norris, R. L.—Simms. Alfalfa, flax, wheat, barley.
 Overstreet, E. W.—Salesville. Timothy.
 Packard, Dr. L. E.—Whitehall. Alfalfa.
 Palmer, Mrs. Chas.—Eureka. Potatoes.
 Parker, Thos.—Anaconda. Orchard grass, bromus inermis.
 Perkin, Alfred—Warm Springs. Barley.
 Phillips, James—Dillon. Potatoes.
 Platt, Herman—Como. Potatoes.
 Platt, H. & Sons—Como. Potatoes.
 Plummer, F. M.—Libby. Clover.
 Popham, E. L.—Victor. Wheat.
 Potts, Jos.—Wise River. Clover, timothy.
 Rader, Chas. T.—White Sulphur Springs. Alfalfa.
 Ravette, J. H.—Bozeman. Wheat.
 Reed, Val.—White Sulphur Springs. Clover.
 Reider, Jacob—Missoula. Rye, alfalfa, peas.
 Richlie, Ernest—Missoula. Potatoes.
 Ringling, John—White Sulphur Springs. Clover.
 Robinson, Frank—Dillon. Potatoes.
 Robinson, Roy—Cardwell. Blue grass, clover.
 Rock, Wm.—Lolo. Wheat.
 Rossman, J. J.—Bozeman. Wheat.
 Roub, H. D.—Hinsdale. Potatoes.
 Bunnell Bros. & Scott—Eureka. Timothy, clover.
 Savage, Wm.—Troy. Clover.
 Scott, P. D.—White Sulphur Springs. Blue grass, timothy, clover.
 Scott, W. E.—Eureka. Potatoes.
 Scollard, D. A.—Bozeman. Wheat.
 Seigling, Gus—Armington. Buckwheat, wheat, barley, rye, oats, alfalfa, bromus inermis, vetch, flax.
 Sheridan, Thos.—Helena. Alfalfa.
 Sherman, Chas.—White Sulphur Springs. Oats.
 Sibley, John—White Sulphur Springs. Clover, alfalfa.
 Smith, Wm.—Cardwell. Barley.
 Stafferson, Wm.—White Sulphur Springs. Timothy, alfalfa, clover, oats.
 Stafford, A. H.—Bozeman. Wheat.
 Stephens, D. J.—Wisdom. Bromus inermis, native grasses.
 Stewart, W. H.—Boulder. Rye.
 Story, T. B.—Bozeman. Wheat.
 Sumner, F. C.—Clyde Park. Flax, wheat, barley, alfalfa, orchard grass, bromus inermis, clover, flax seed, peas, buckwheat, rye, clover seed, alfalfa seed, brome grass seed, orchard grass seed, millet seed, timothy.
 Talbott, W. V.—Armington. Grain, millet, timothy, orchard grass, clover, alfalfa, seeds, peas, potatoes.
 Thomas, E. M.—Libby. Alfalfa, timothy.
 Thompson, W. S.—Townsend. Clover.
 Tolliver, Mrs. E. L.—Monarch. Blue grass, native grasses, timothy, millet, alfalfa.
 Trueman, Dick—Wise River. Clover.
 Turnage Bros.—St. Ignatius. Alfalfa.
 Valinum, C. H.—Bridger. Beans.
 Vallance, John—Hamilton. Potatoes.
 Verwolf, John—Manhattan. Wheat.

Voges, C. W.—Big Timber. Oats.
 Vote, F. W.—St. Ignatius. Flax.
 Walters, Cab.—White Sulphur Springs. Clover.
 Wentworth, C. L.—Lewistown. Wheat, barley, flax, alfalfa, timothy, clover.
 West, Thos. W.—Havre. Potatoes.
 Whitecraft, Durel—Deer Lodge. Wheat.
 White, Geo. A.—Helena. Alfalfa, timothy.
 White, Geo. M.—Birdseye. Blue grass, clover.
 White, Mat. W.—Bozeman. Bromus inermis.
 Whitney, G. M.—Bozeman. Clover, bromus inermis, wheat, oats.
 Willard, E. A.—Hardin. Flax, wheat, clover, corn.
 Williams, Dr. W. M.—Harlem. Alfalfa seed.
 Williams, W. O.—Jefferson City. Barley.
 Willis, C. C.—Plains. Clover.
 Winslow, C. W.—Whitehall. Clover, wheat.
 Wisner, Montgomery—Bozeman. Wheat.
 Wood, George—Bozeman. Wheat.
 Wood, George—Bozeman. Wheat.
 Wood, J. T.—Victor. Potatoes.
 Wood, N. S.—Ravelli. Clover.
 Youngblut, Henry—Helena. Wheat.
 Zehntner, Jacob—White Sulphur Springs. Oats, clover.

MISSOURI

Location: Ave. C, cor. 6th St.

GROUP 117

Cunningham, J. A.—Caruthersville. Tobacco.
 Henry County—Tobacco.

GROUP 120

Missouri—State of—Agricultural exhibit of grains and grasses.
 Baumgartner, S.—Pierce City. Agricultural exhibit, grains, grasses.
 Clark, F. E.—Pierce City. Wheat, millet.
 Cunningham, J. A.—Caruthersville. Sorghum, alfalfa.
 Grifferds, Al.—Urich. Oats.
 Grove, Chas.—Princeton.
 Henry County—Agricultural exhibit of grains and grasses.
 McCay, Robt.—Urich. Oats, clover, grasses.
 Smith, Sherman—Princeton. Broom corn.
 Smith, Chris.—Bunceton. Agricultural exhibit of grains and grasses.

GROUP 132

Cunningham, J. A.—Caruthersville. Cotton.

NEVADA

Location: Av. A, bet. 9th & 10th Sts.

GROUP 114

Nevada, State of—Reno, Nev. Model dairy farm.

GROUP 118

Nevada, State of—Reno, Nev. Nevada creameries & dairy farms shown by photographs; specimens of garden crops.

GROUP 119

Nevada, State of—Reno, Nev. Experiments, maps, charts, photographs, statistics, etc., pertaining to the advancement of agriculture. Collective exhibit of soils.

GROUP 120

Antelope Land & Cattle Co.—Yerington. Vegetables.

Anker, Peter—Lovelock.
 Badt, M. & Co.—Wells. Wheat.
 Barlow, A. H.—Mason. Potatoes.
 Barrett, Geo.—Yerington. Potatoes.
 Piddleman, Geo.—Reno. Potatoes.
 Power, G. M.—Tamolle. Wheat, Rye, Oats.
 Boyer, R. C.—Mason. Timothy.
 Bradshaw, J. D.—Paradise. Alfalfa Seed.
 Carson Valley Improvement Club—Vegetables.

Chillen, A.—Reno. Potatoes.
 Casey, J. A.—Lovelock. Alfalfa.
 Churchill Co. Chamber of Com.—Vegetables.
 Girac, C. P.—Stillwater. Sugar Beets.
 Colombo, G. B.—Reno. Vegetables.
 Conway Co., P. J.—Wabuska. Alfalfa Seed.
 Cordry, E. F.—Mason. Oats.
 Cross, E.—Yerington. Wheat.
 Dabney, W. S.—Reno. Vegetables, Onions.
 Dangberg, H. F.—Minden. Wheat.
 Dapoli, John—Dayton. Sugar Beets.
 Deitz, Wm.—Northam. Sugar Beets.
 Dolf, Thos.—Fallon. Sugar Beets.
 Dominco, P.—Yerington. Barley.
 Dominici, P.—Mason. Barley.
 Mason, E. W.—Mason. Alfalfa.
 Elko Development League—Elko. Vegetables.
 Elko Dry Farm—Blaine. Barley, Oats, Rye.
 Ferguson, J. W.—Fallon. Sugar Beets.
 Fernley Water Users' Assn.—Fernley. Vegetables.
 Freedhoff, Geo.—Yerington. Potatoes.
 Ghileri, A.—Reno. Potatoes.
 Griffith, Edw.—Las Vegas. Root Crops.
 Hascall, C. A.—Fallon. Root Crops, Wheat.
 Henningsen, Geo.—Minden. Barley, Timothy.
 Kading, G. L.—Battle Mtn. Alfalfa Seed.
 Kent, Chas.—Stillwater. Sugar Beets.
 Kent, C. E.—Fallon. Wheat.
 Langford, W. L.—Fallon. Wheat, Oats.
 Langford, W. L.—Stillwater. Timothy.
 Las Vegas Chamber of Commerce—Las Vegas. Vegetables.
 Lye, E. J. & Sons—Paradise. Timothy, Barley.
 Lyon County Improvement Club—Vegetables.
 Mason Valley—Grasses.
 Mattley, John—Reno. Potatoes.
 McGowan, J.—Yerington. Wheat.
 McLeod, C. A.—Yerington. Wheat.
 McLogan, D.—Mason. Alfalfa.
 Menke, Wm.—Reno. Potatoes.
 Mianchi, B.—Yerington. Barley.
 Penrose, Wm.—Wabuska. Alfalfa Seed.
 Perrazo, L.—Glendale. Root Crops, Potatoes.
 Pyramid Indians—Pyramid. Oats, Timothy.
 Pyramid Indian School—Pyramid. Barley.
 Oar, Frank—Fallon. Sugar Beets.
 Safetto, Louis—Glendale. Potatoes.
 Ruddell, W. C.—Lovelock. Barley.
 Reno Commercial Club—Reno. Vegetables.
 Shields, E. C.—Yerington. Wheat.
 Semenza, A.—Reno. Onions.
 Shields, E.—Mason. Millet.
 Shields, E. V.—Yerington. Wheat.
 Shiappacasse, A.—Reno. Potatoes.
 Snyder, J.—Yerington. Wheat.
 Springmeyer, Chas.—Minden. Timothy.
 Station Farm—Reno. Timothy.
 Sturla, J. B.—Wadsworth. Potatoes.
 Strosnider, I. A.—Yerington. Barley, Alfalfa.
 Tamagini, A.—Yerington. Barley.
 University of Nevada—Reno. Alfalfa, Barley.
 Vanzo, O. J.—Fallon. Vegetables.
 Waits Bros.—Reno. Vegetables.
 Werner, Otto—Reno.
 Williams, W. H.—Fallon. Sugar Beets.
 Wilson, G. E.—Nurdyke. Oats.

GROUP 132

Adams & McGill—McGill. Nevada Wool.
 Gul, P.—Las Vegas. Cotton.
 Griffith, E. W.—Las Vegas. Cotton.
 Jenkins, W. T. Co.—Battle Mountain. Wool.
 Hellonwell Jones Co.—Boston, Mass. Wool.
 Leavitt, J. D.—St. Thomas. Cotton.
 McBride, J. A.—Elko. Wool.
 Nevada Cal. Land & Stock Co.—Reno. Wool.
 Talbot, J. F.—Reno. Wool.
 Taylor, J. G.—Lovelock. Wool.
 University of Nevada—Reno. Wool.
 Wheeler, D. C., Inc.—Reno. Wool.

NEW YORK.

Location Av. B, bet. 4th & 5th Sts.

The complete list of exhibits from New York in the Department of Agriculture will appear in revised edition of the Catalogue.

OHIO

Location: Av. A, bet. 8th & 9th Sts.

The complete list of exhibits from Ohio in the Department of Agriculture will appear in revised edition of the Catalogue.

OREGON

Location: Ave. D, bet. 4th & 6th Sts.

GROUP 120

Achillis, Fred—Oregon City. Corn, alfalfa.
 Ames, W.—Eugene. Oats.
 Anderson, H. S., Judge—Oregon City. Oats.
 Bachman, Jos.—Clarkomas. Onion seeds.
 Boege, H.—Wilsonville. Oats.
 Bynon, F. S.—Salem. Corn.
 Calif, C. S.—Eugene. Clover, Alfalfa.
 Chindgren, O. P.—Mulino. Wheat.
 Columbia Land & Produce Co.—The Dalles. Wheat.
 Cottage Grove Grange—Cottage Grove. Grain.
 Creswell Grange—Creswell. Oats.
 Daugherty Bros.—Molalla. Wheat, oats.
 Davis, W. H.—Houton. Wheat.
 Dennis, O. M.—Oregon City. Wheat, oats.
 Dennis, E.—The Dalles. Wheat.
 Dimrick, G. E.—Oregon City. Corn.
 Edwards, J. K.—Junction City. Wheat.
 Funk, L.—Oregon City. Wheat, corn.
 Gribble, A. D.—Macksburge. Wheat.
 Guthrie, H.—Monmouth. Wheat.
 Harlow, M. Eugene—Orchard grass.
 Hughes, L.—St. Paul. Pop corn.
 Hyde, M.—Albany. Corn.
 Ingram, Geo.—Oregon City. Wheat.
 Johnston Bros.—Milwaukie. Onions.
 Klaiskanie Commercial Club—Klaiskanie. Potatoes.
 Koon, C.—Eugene. Clover, orchard grass.
 Kruse, H. O.—Wilsonville. Wheat.
 Lawton, W. B.—Oregon City. Barley.
 Leek, E.—Oregon City. Wheat.
 Loncoy—Milwaukie. Clover, rye.
 Lowe, D. M.—Ashland. Alfalfa, grain, clover, broom grass.
 Martin, A. W.—Albany. Corn.
 McClanahan, E. J.—Eugene. Alfalfa.
 Merrick, A. N.—Clackamas. Oats, wheat.
 Minor, A. C.—Heppner. Grain.
 Minor, O. W.—Heppner. Broom corn.
 Muller, F. W.—Oregon City. Barley, wheat.
 Nairn, C. D.—Amity. Oats, wheat.
 Peck, B. H.—Heppner. Wheat.
 Felsold, O.—Eugene. Oats.
 Risley, J.—Milwaukie. Wheat.
 Roadannel Bros.—Milwaukie. Onions.
 Rodman, J.—Aurora. Barley.
 Schatz, Wm.—Wilsonville. Oats, wheat.
 Scramlin Grocer Co.—Macksburg. Oats.
 Smead, W. W.—Heppner. Wheat.
 Smith, J. W.—Macksburg. Grain.
 Sovern, J.—Junction City. Oats, wheat.
 Stanley, H.—Oregon City. Barley.
 Steiner, F.—Oregon City. Wheat.
 Taylor, W. A.—Macleay. Corn.
 Warren, E. M.—Eugene. Grain, clover, grasses.
 Willa Kenzie Grange—Eugene. Grasses, clover, wheat.
 Wilson, Capt. F.—Eugene. Wheat.
 Wise, J.—Milwaukie. Rye.
 Young, C. M.—Oats.
 Young, W.—Eugene. Wheat.

UTAH

Location: Av. A & 10th St.

The complete list of exhibits from Utah in the Department of Agriculture will appear in revised edition of the Catalogue.

VIRGINIA

Location: Av. A & 5th St.

GROUP 120

Bellwood, James—So. Richmond. Complete agricultural exhibit of grains, grasses, etc. Virginia, State of—Tobacco exhibit.

WASHINGTON

Location: Ave. A, bet. 6th & 7th Sts.

GROUP 120

Benton County Grange and Commercial Clubs—Corn, agricultural products. Chamber of Commerce, by C. W. H. Heidem—Spokane. Pedigree seeds. Clallam County Fair Association—Port Angeles. Grains, grasses, potatoes, vegetables. Island County Fair Association—Oak Harbor and Soupeville. Wheat, barley, oats. North Yakima Commercial Club—North Yakima. Grains and grasses. Olympic Peninsula Fair Association—Port Townsend. Collective exhibit: Engle, C. T.—Port Townsend. Barley. Gastineau, A. M.—Port Townsend. Barley. Hooker, J. E.—Port Townsend. Wheat. Hutchinson, J. M.—Port Townsend. Rye. Naylor, E. J.—Port Townsend. Oats. Searry, Mrs. E.—Port Townsend. Wheat. Ritzville Commercial Club—Ritzville. Grain, alfalfa, feterita.

Skagit County Fair Association—Burlington. Collective exhibit: Benson, Ben—Burlington. Oats. Chase, J. L.—Burlington. Clover, wheat. Connor, F. J. S.—La Connor. Alfalfa. Downey, Pater—La Connor. Oats. Gear, L.—La Connor. Oats. Hansen, C. C.—La Connor. Oats. Hall, J. W.—Burlington. Alfalfa. Johnson, Ole—Burlington. Oats. Knight, Grant—La Connor. Oats. Knutson, C.—Burlington. Oats, rye, vetch. La Connor Land Co.—La Connor. Oats. Hunzicker, K.—Burlington. Clover. Polson, Alfred—Burlington. Clover. Sampson, Ray—Burlington. Alfalfa. Scott, S. C.—Burlington. Alfalfa. Ovemle, T. M.—Burlington. Barley. Nelson & Smith—Burlington. Wheat. Tverstrand, Ben—O'Connor. Oats.

Spokaneish County Fair Association—Everett. Grains and grasses.

Southwestern Washington Fair Association—Lewis County. Collective exhibit: Anderson, F. O.—Centralia. Wheat, timothy. Albrecht, Sol—Centralia. Timothy. Bush, J. C.—Chehalis. Timothy. Bostman, M.—Centralia. Orchard grass. Carney, Ed—Centralia. Grass. Crown, Ed—Chehalis. Orchard grass. Degeler, F. A.—Centralia. Rye, oats, wheat. Degeler, Mrs. F. A.—Centralia. Grass. Davis, S. B.—Centralia. Timothy. Esham, W.—Centralia. Wheat. Edwards, W. E.—Centralia. Wheat. Goodrich, C. E.—Centralia. Oats. Gibson, M. H.—Chehalis. Orchard grass. Hillford Bros.—Centralia. Barley. Hensen, J. E.—Centralia. Buckwheat, flax, field peas. Jensen, H.—Centralia. Oats. Lehman, F. F.—Chehalis. Wheat. Mattson, John—Chehalis. Wheat. Millem, J. E.—Chehalis. Garden Peas. Myers, A.—Centralia. Vetch.

Nelson, Nels—Centralia. Wheat. Orten, L. H.—Centralia. Oats. Raybon, H.—Centralia. Oats. Rimapel, K.—Chehalis. Orchard grass. Shafer Bros.—Centralia. Wheat. Thacker, J. G.—Centralia. Timothy. Wall, W. E.—Centralia. Timothy. Walters, J. W.—Centralia. Clover. Woods, F. M.—Centralia. Timothy. Young, Ed—Centralia. Timothy, orchard grass.

Spokane Chamber of Commerce—Spokane. Inland Empire grain and grass exhibit. Sunnyside District—Collective exhibit: Barnes, Wm.—Sunnyside. Potatoes. Sparsaddle, F. J.—Sunnyside. Corn. Eby, D. B.—Sunnyside. Corn. Greece, Chas.—Sunnyside. Potatoes. Goemmer, Mr.—Sunnyside. Potatoes. Harrison, W. H.—Sunnyside. Corn. Ogata, E.—Sunnyside. Potatoes. Pratt, Wm.—Sunnyside. Potatoes. Rowland, C.—Sunnyside. Corn. Roady, Ed—Sunnyside. Potatoes. Skinner, M. Q.—Sunnyside. Potatoes. Sheller, Roscoe—Sunnyside. Corn. Simpson, J. W.—Sunnyside. Corn. Sutherland, Mr.—Sunnyside. Onions. Turner, A. C.—Sunnyside. Corn. Walla Walla Commercial Club—Walla Walla. Grain, alfalfa, timothy. Washington State College—Pullman. Agricultural exhibit.

Whitman County Federation of Commercial Clubs—Pullman, Wash. Grain, grasses. Collective exhibit: Arsen, H. M.—Pullman. Wheat. Bryant, M.—Pullman. Wheat. Clark, J.—Pullman. Wheat. Durham, Ezra—Pullman. Wheat. Higgins, Vance—Pullman. Wheat. Jarron, W.—Colfax. Wheat. McCroskey, Geo.—Palouse. Wheat. Slagle, E. M.—Pullman. Wheat. Whitelow, M. W.—Pullman. Wheat.

GROUP 134

Washington, State of—Photos, maps, data, etc., pertaining to the lumber industry.

Day Lumber Co.—Seattle. Shingles. Gillespie, J. B.—Hoquiam. Table. Schuneman, W. C.—Hoquiam. Table. West Coast Lumber Manufacturers Assn.—Tacoma. Commercial Lumber products in varieties of finish.

WISCONSIN

Location: Av. A, bet. 6th & 7th Sts.

GROUP 120

SEEDS, CEREALS, GRASSES

Bell, F. E.—Columbus. Wheat. Benedict, E. L.—Beloit. Corn, Clover. Bohl, E. T.—Beaver Dam. Corn, Barley. Block, H. J.—Burlington. Corn, Wheat. Brueckner, H. C.—Jefferson. Corn. Brunker, J. E.—Ridgeway. Corn. Clingman, E. E.—Reedsburg. Corn, Rye. Dengel, Peter—La Crosse. Oats. Dettwiler, John—Monroe. Corn. Draheim, H. T.—Gotham. Grain and Hay. Ellickson, A. C.—Arlington. Corn, Oats. Freehoff, E. E.—Coon Valley. Corn, Seed. Getchman, Chas. N.—Freedom. Oats, Seeds. Gorsege, M. E.—Haven. Soy Beans. Grebe, Fred—Fox Lake. Corn, Hay. Groth, Louis—Cedarburg. Rye. Haney, O. A.—Lone Rock. Corn. Hans, J.—Jefferson. Grain, Clover. Hans, Enoch—Rochester. Clover, Alfalfa. Hanson, L.—Eleva. Timothy. Hemmy, P. A.—Humbird. Clover. Hecketsweiler, O. J.—Alma Center. Corn.

Hintz, H. S.—Oak field. Corn.
 Howitt, C. H.—Randolph. Grain, Alfalfa.
 Hubbard, L.—Evansville. Rye.
 Joos, Frank—Alma Center. Corn.
 Jung, J. W.—Randolph. Corn and Seeds.
 Kaltenberg & Sons—Wauakee. Corn.
 Katel, W. C.—Kewaunee. Rye.
 Kelly, A. N.—Mineral Point. Corn, hay.
 Klein, Alfred—Lomira. Barley, oats.
 Kneeland, Peter—Windsor. Beans.
 Koltes, Jas.—Dane. Oats, clover, seed.
 Krause, J. L.—Beaver Dam. Grain, clover.
 Leonard, Geo. H.—Jefferson. Corn, grain.
 Leonard, Wm.—Jefferson. Popcorn, grain.
 Lindly, F. J.—Fox Lake. Clover.
 Messerschmidt, S. H.—Madison. Corn.
 Miritz, O. F.—Fond du Lac. Corn, oats.
 Moos, Wm.—Onalaska. Oats.
 Ochsner, A.—Plain. Clover.
 Paulson, P. A.—Hudson. Alfalfa.
 Pommerening, E. C.—Oshkosh. Oats.
 Popp, Arthur—Jefferson. Grain, alfalfa.
 Raessler, N.—Beloit. Grain.
 Ristow, C. S.—Black River Falls. Corn.
 Rodwell, E.—Baraboo. Corn.
 Rosenow, H. E.—Oconomowoc. Corn.
 Russell, A. G.—Janesville. Oats.
 Schmidt Bros.—Foxboro. Clover.
 Schoenbeck, H.—Enterprise. Barley.
 Schwandt, Wm.—Deer Park. Corn.
 Seblon, S.—Westby. Clover seed and hay.
 Steinhoff, W.—Platteville. Clover.
 Swarz Bros.—Waukesha. Alfalfa.

Thompson, A.—Black River Falls. Corn.
 Thorpe, E. B.—Monroe. Corn.
 Thorpe, J. E.—Tavera. Grain and clover.
 Van Loon, J.—La Crosse. Corn.
 Ward, B.—Ft. Atkinson. Grain.
 Ward, T.—Ft. Atkinson. Grain.
 West, H. P.—Ripon. Grain.
 Wichern, A.—Baraboo. Corn.
 Wichern, W.—Baraboo. Corn.
 Wellings, J., Midway, Wis. Agriculture. Av.
 A, bet. 6th & 7th Sts. Corn, State In-
 spected Golden Glow, Wis., No. 12, Seed
 Corn for sale, grown by a specialist.
 Zachar—Racine. Oats, rye.

UNITED STATES GOVERNMENT EXHIBIT PALACE OF AGRICULTURE

Location: Ave. D. bet. 4th & 6th Sts.

UNITED STATES DEPARTMENT OF AGRICULTURE

Bureau of Animal Industry.
 Bureau of Biological Survey.
 Bureau of Chemistry.
 Bureau of Plant Industry.
 Forest Service.
 Office of Experiment Stations.
 Weather Bureau.

A complete list of the exhibits of the De-
 partment will appear in the revised edition of
 the catalogue.

FOREIGN SECTION AGRICULTURE

ARGENTINE

Location: 6th St., bet. Avs. D & E.

The complete list of exhibits from Argen-
 tine in the Department of Agriculture will
 appear in revised edition of the Catalogue.

CHINA

The complete list of exhibits from China in
 the Department of Agriculture will appear in
 the revised edition of the Catalogue.

CUBA

Location: Av. D & 8th St.

The complete list of exhibits from Cuba in
 the Department of Agriculture will appear in
 the revised edition of the Catalogue.

HONDURAS

Location: 1st St. & Av. D

The complete list of exhibits from Hon-
 duras in the Department of Agriculture will
 appear in the revised edition of the Catalogue.

JAPAN

Location: Avs. C & D, bet. 1st & 2nd Sts.

GROUP 119

Noshomusho Suisan Kyoku—Models of fishing
 boats, fishery. Specimens of aquatic prod-
 ucts. Statistics.

Noshomusho Nomukyoku—Specimens of agri-
 cultural products. Annual statistics.

Taiwan Sotokufu Shokusan Kyoku—Map
 showing the distribution of principal prod-
 ucts in Formosa. Specimens of products.

GROUP 120

Misaburo Kinbara—Tokyo. Camellia Oil.
 Torajiro Inoue—Hyogo. Bean Oil.
 Hirano Daizu Kogyo Kabushiki Kaisha—
 Hyogo. Bean Oil.

Kotji Hirasao—Hyogo. Sesame Oil.
 Daizu Hyohaku Kabushiki Kaisha—Aichi.
 Bean Oil.

Sugiji Shokai—Aichi. Bean Oil.

Saburo Oguri—Aichi. Bean Oil.
 Kamomatsu Okuda—Aichi. Bean Oil.
 Soiyu Seimai Kabushiki Kaisha—Aichi. Bean
 Oil.

Ono Yuasho Kabushiki Kaisha—Aichi. Vege-
 table Oil.
 Fukuiken Seiyugyo Kumiai—Fukui. Paulownia
 Oil.

Yoshizo Honma—Chiba. Paulownia Oil.
 Minosuko Tsuchiya—Chiba. Paulownia Oil.
 Yoshizo Watanabe—Chiba. Paulownia Oil.
 Bunichi Kitagaki—Shinano. Paulownia Oil.

Kamejiro Ishibashi—Shinano. Paulownia Oil.
 Chujiro Yagi—Saga. Camellia Oil.
 Shinsaburo Nonaka—Saga. Camellia Oil.
 Taniya Gomeikaisha Shucchosho—Fukuoka.
 Vegetable Oil.

Settsu Seiyu Kabushiki Kaisha—Osaka. Veg-
 etable Oil.

Sadajiro Yoshiwara—Osaka. Vegetable Oil.
 Kagoshimaken Seiyu Kabushiki Kaisha—Kag-
 oshima. Vegetable Oil.

Shinjiro Nishimura—Kagoshima. Vegetable
 Oil.

Goshikaisha Yokkaichi Seiyu-Jo—Miye. Veg-
 etable Oil.

Goshikaisha Notogowa Seiyu-Jo—Shiga. Vege-
 table Oil.

Otaru Seiyu Kabushiki Kaisha—Hokkaido.
 Vegetable Oil.

Hokkai Seyu Kabushiki Kaisha—Hokkaido.
 Vegetable Oil.

Nozawagumi—Kanagawa. Vegetable Oil.
 Yesaku Hori—Nagano. Silkworm Oil.

Yugon Sokimin Shinyo Hanbai Kobai Kumiai
 Yoda Gumi—Nagano. Silkworm Oil.

Suezo Akaboshi—Kumamoto. Camellia Oil.
 Kabei Uyeda—Kumamoto. Camellia Oil.

Kasuma Ishii—Nagasaki. Camellia Oil.
 Tomihei Kamakuchi—Nagasaki. Camellia Oil.

Eizo Miroye—Nagasaki. Camellia Oil.
 Yosaku Nagamatsu—Nagasaki. Camellia Oil.

Chukichi Furuyama—Osaka. Sorghum.
 Yosuko Koga—Osaka. Sorghum.

Toyo Shuhyo Shokai—San Francisco. Seeds.

Torajiro Watase—Tokyo. Seeds. Hort. Pal., Av. A, cor. 4th St.

GROUP 121

Matsuye Umimatsusho Kumiai—Shimane. Sea Weed.
Shisunoka Shoga, Hechima, Togarashi Rakkasei Dogyo Kumiai—Shizuoka. Gourd.
Nozawa Gumi—Kanagawa. Gourd.
Sabei Ukida—Okayama. Gold Nuts.
Yasujiro Sumikawa—Yamaguchi. Gold Nuts.
Kumano Sanrinkai—Wakayama. Gold Nuts.
Higashi Murogon Ringyokai—Wakayama. Gold Nuts.

GROUP 126

Tomoyasu Hirano—Tokyo. Fish Oil.
Gitaro Ito—Osaka. Cod Liver Oil.
Kogyo Goshikaisha—Osaka. Cod Liver Oil.
Kyoto, Osaka, Hyogo, Kanton Suisan Kumiai—Osaka. Isinglass.
Nozawa Gumi—Kanagawa. Fish Oil.
Shinno Kanton Suwa Suisan Kumiai—Nagano. Isinglass.

GROUP 132

Abe Shoton—Kanagawa. Feathers.
Nippon Hiko Kabushiki Kaisha—Tokyo. Feathers.
Giransho Nokai—Giran. Taro Hemp.
Shinchiku Sho Nokai—Shinchiku. Taro Hemp.
Tainancho Nokai—Tainan. Taro Hemp.

GROUP 134

Noshomusho Sanrin Kyoku—Model showing the distribution of forests in Japan. Specimens of principal woods in Japan. Specimens of products.

GROUP 135

Mitsui Bussan Kaisha—Tokyo. Lumber.
Takesei Goshikaisha—Tokyo. Bamboo.
Cho Yui—Tokyo. Marquetry.
Moritaro Takechi—Tokyo. Lumber.
Chujiro Aiba—Tokyo. Lumber.
Kyoto Takesho Kumiai—Kyoto. Bamboo.
Masuda Goshikaisha—Kanagawa. Lumber.
Taisuke Osada—Hyogo. Bamboo.
Kobe Seichiku Kabushiki Kaisha—Hyogo. Bamboo.
Harunosuke Shima—Ebaragi. Charcoal.
Kichijiro Asano—Aichi. Veneer Wood.
Nippon Gakki Seizo Kabushiki Kaisha—Shizuoka. Veneer Wood.
Chujiro Segawa—Shiga. Bamboo.
Hagi Chikuzai Kabushiki Kaisha—Yamaguchi. Bamboo.
Hidakagen Mokutan Dogyo Kumiai—Wakayama. Charcoal.
Nishimurogon Mokutan Dogyo Kumiai—Wakayama. Charcoal.
Hidaka Kokuchiku Hanbai Kumiai—Wakayama. Black Bamboo.
Jujiro Tamai—Taihoki. Wood Fibre.
Yugen Sekinin Taiko Boseki Kobai Hanbai Kumiai—Taichu. Wood Fibre.
Oitaken Mokuro Dogyo Kumiai—Oita. Wood Wax.
Chikugo Mokuro Dogyo Kumiai—Fukuoka. Wood Wax.
Chikuzen Mokuro Dogyo Kumiai—Fukuoka. Wood Wax.
Bunson Mokuro Dogyo Kumiai—Fukuoka. Wood Wax.
Hizen Mokuro Dogyo Kumiai—Saga. Wood Wax.
Kitagumi Kawachi Gomei Kaisha—Hyogo. Wood Wax.
Eisuko Shimizu—Hyogo. Wood Wax.
Higo Seiro Kabushiki Kaisha—Kumamoto. Wood Wax.
Chojiro Murakami—Ehime. Wood Wax.
Daifuro Nakagawa—Ehime. Wood Wax.
Yoshukichi Mineoi—Ehime. Wood Wax.

PHILIPPINE ISLANDS.

Location: Av. D. 2nd, 3rd & 4th Sts.
 GROUP 114.

Government of the Philippine Islands. Manila, P. I. Farm house.

GROUP 115.

Government of the Philippine Islands. Manila, P. I. Farm machinery and agricultural implements.

Heing, A. Manila, P. I. Farm cart.

GROUP 117.

Alhambra Cigar Factory, Manila, P. I. Leaf tobacco, cigars and cigarettes.

Catubusan Cigar Factory, Manila, P. I. Cigars.

Compania General de Tabacos de Filipinas. Manila, P. I. Leaf tobacco & mfg. products.

Department of Mindanao and Sulu. Zamboanga, Mindanao, P. I. Leaf tobacco.

German Cigar Factory, Manila, P. I. Leaf tobacco, cigars and cigarettes.

Government of the Philippine Islands. Manila, P. I. Leaf tobacco, tobacco seeds.

La Insular Cigar Factory, Manila, P. I. Cigars.

Manila Commercial Company, Manila, P. I. Leaf tobacco, cigars and cigarettes.

Province of Isabela, Philippine Govt. Ilagan, Isabela, P. I. Leaf tobacco.

GROUP 118.

Government of the Philippine Islands. Manila, P. I. Apparatus for stripping and cleaning abaca.

GROUP 119.

Government of the Philippine Islands. Manila, P. I. Statistical charts, agricultural publications.

GROUP 120.

Compania General de Tabacos de Filipinas. Manila, P. I. Cocoanuts, oil and fiber.

Dept. of Mindanao and Sulu, Philippine Govt. Zamboanga, Mindanao, P. I. Rice, cacao, coffee, mangoes, cocoanuts, oil, copra.

Government of the Philippine Islands. Manila, P. I. Complete agricultural exhibit of seeds, grasses, etc.

J. T. Fena, Mgr. Rio Grande Rubber Estate. Cotabato, Mindanao, P. I. Peanuts and peanut oil.

Patalon Plantation Co. Zamboanga, Mindanao, P. I. Maize.

Province of Laguna, Philippine Govt. Santa Cruz, P. I. Cocoanuts, copra and oil.

Vegetable Oil Co. Manila, P. I. coconut oil.

GROUP 121.

Government of the Philippine Islands. Manila, P. I. Para rubber.

Fenner, J. T. Cotabato. Gutta percha.

GROUP 132.

Government of the Philippine Islands. Manila, P. I. Complete exhibit of textile plants and their products.

Dept. of Mindanao and Sulu, Philippine Govt. Mindanao, Zamboanga, P. I. Kapoc.

German & Co. Manila, P. I. Knotted abaca (Manila hemp).

Lutz & Co. Manila, P. I. Rolls of knotted abaca (Manila hemp).

The Manila Commercial Co. Manila, P. I. Rolls and bobbins of knotted abaca braid.

MacLeod & Co. Manila, P. I. Abaca (Manila hemp) and magney in bales.

Pacific Commercial Co. Manila, P. I. Abaca, kapoc seed.

W. F. Stevenson & Co. Manila, P. I. Abaca and Magney in bales.

Smith, Bell & Co. Manila, P. I. Abaca and magney in bales.

O. V. Wood. Mailie, Davao, Mindanao, P. I. Abaca fiber.

GROUP 133.

Government of the Philippine Islands. Manila, P. I. Collections of useful and injurious insects. Appliances for destroying injurious insects.

GROUP 134.

Government of the Philippine Islands. Manila, P. I. A complete forestry exhibit.

Government of the Philippine Islands. Manila, P. I. Mfg. and rough lumber of all descriptions.

AGRICULTURE.

GROUP 135.

Born, S. A. & Co. San Francisco, Cal. Section of house with interior finish.

Cadwalader Gibson Lumber Co. Manila, P. I. Flooring, lumber.

Cailles, Juan. Sta. Maria, Laguna. Lumber. Davis **Hardwood Co.** San Francisco, Cal. Flooring and doors.

Elgar, James. New York. Window and casing. **Fenner, J. T.** Cotabato, P. I. Lumbang oil and meal, etc.

Insulsa Lumber Co. Manila, P. I. Lumber, flooring.

Kolambagan Lumber Co. & Development Co., The. Misamis. Flooring, rough lumber.

Lyan & Co. Zamboanga. Lumber. **Mindanao Lumber Co.** Zamboanga. Flooring. **Pacific Sash & Door Co.** Los Angeles, Cal. Doors and panels.

Pichel, Jose. Zamboanga. Lumber. **Philippine Negros Lumber Co.** (Occidental Negros). Cadiz. Lumber.

Port Banga Lumber Co. Zamboanga. Lumber. **Pujalte & Co.** Manila. Lumber, flooring.

Western Hardwood Lumber Co. Los Angeles, Cal. Veneer fitches and veneer.

NEW ZEALAND

Location: Aves. C & D, bet. 6th & 8th Sts.

The complete list of exhibits from New Zealand in the Department of Agriculture will appear in revised edition of the Catalogue.

PORTO RICO.

Location: 4th St., Aves. C & D.

The complete list of exhibits from Porto Rico in the Department of Agriculture will appear in the revised edition of the Catalogue.

SWEDEN

The exhibit of Sweden classified in this Department is installed in the Swedish Building, Avenue of Nations.

Official Catalogue of Exhibitors

Panama-Pacific International Exposition

San Francisco, California, 1915

CHAS. C. MOORE
President

Director-in-Chief
FREDERICK J. V. SKIFF

Division of Exhibits

ASHER CARTER BAKER, Director

Department H

FOOD PRODUCTS

T. G. STALLSMITH, Chief

Preliminary Edition

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FOOD PRODUCTS

Official Catalogue Department H

CLASSIFICATION OF EXHIBITS

**Equipment and Methods Employed in the
Preparation of Foods and Beverages.**

Vegetable Food Products and Agricultural Seeds.

Farinaceous Products and Their Derivatives.

Bread and Pastry.

Animal Food Products.

Preserved Meat, Fish, and Vegetables.

Tobacco.

**Sugar and Confectionery, Condiments and
Relishes; Nut and Fruit Foods.**

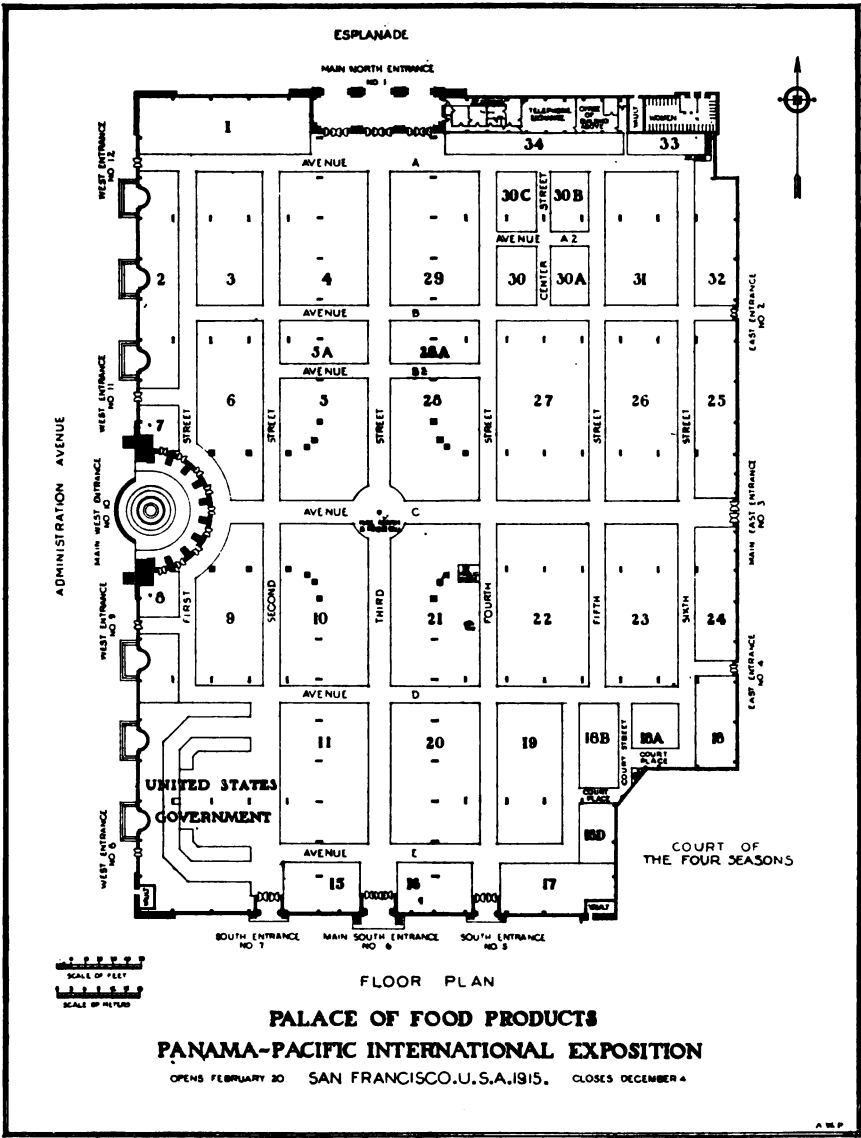
Waters and Unfermented Fruit Juices.

Wines and Brandies.

**Syrup, and Liquors, Distilled Spirits and
Commercial Alcohol.**

Fermented Beverages.

Useful Insects and Their Products.



PALACE OF FOOD PRODUCTS
PANAMA-PACIFIC INTERNATIONAL EXPOSITION
 OPENS FEBRUARY 20 SAN FRANCISCO, U.S.A., 1915. CLOSES DECEMBER 4

HOW TO LOCATE AN EXHIBIT

The Palace of Food Products is laid out in blocks, which are consecutively numbered from 1 to 34, inclusive, as shown on the floor plan. The aisles are designated as streets (First to Sixth), running north to south, and as avenues (A to E), from east to west. To locate an exhibitor refer to the name, alphabetically arranged under the exhibit group to which each belongs in the official classification, and note the aisles location following each name. Street and Avenue signs are erected at their intersection on the corners of all blocks.

All Exhibits entered in this Catalogue are located in the Palace of Food Products, **unless otherwise indicated** after the entry. The following are abbreviations used in this Catalogue to designate other Exhibit Palaces:

| | |
|----------------------------------|--------------|
| Fine Arts Palace..... | Fn. A. Pal. |
| Education Palace..... | Ed. Pal. |
| Liberal Arts Palace..... | Lb. A. Pal. |
| Manufactures Palace..... | Mfr. Pal. |
| Varied Industries Palace..... | V. I. Pal. |
| Machinery Palace..... | Mch. Pal. |
| Transportation Palace..... | Trns. Pal. |
| Agriculture Palace..... | Agr. Pal. |
| Food Products Palace..... | Fd. Pr. Pal. |
| Live Stock Palace..... | Lv. St. Pal. |
| Horticulture Palace..... | Hor. Pal. |
| Mines and Metallurgy Palace..... | Min. Pal. |

DEPARTMENT OF AGRICULTURE
Palace of Food Products
Official Classification
of Exhibits

GROUP 117**TOBACCO**

(Equipment, Processes and Products.)

- Class 564. Equipment for manufacture. Construction of tobacco factories.
 Class 565. Laboratory appliances.
 Class 566. Manufactured products.

GROUP 122**ANIMAL FOOD PRODUCTS**

- Class 591. Refrigerated fresh meats, poultry, game and fish; edible animal fats and oils, gelatines.
 Class 592. Milk and cream, fresh or condensed; sterilized milk.
 Class 593. Butter in all forms.
 Class 594. Cheese in all forms.
 Class 595. Eggs; albuminoid foods and preparations.

GROUP 123**EQUIPMENT AND METHODS EMPLOYED IN THE PREPARATION OF FOODS AND BEVERAGES**

- Class 597. Flour mills. Factories for the production of glucose and starch.
 Class 598. Manufacture of food pastes.
 Class 599. Bakeries: kneading machines, mechanical ovens; manufacture of ship biscuit.
 Class 600. Pastry works.
 Class 601. Methods and appliances for the utilization of refrigeration in food preservation. Refrigerators and household refrigerating machines.
 Class 602. Equipment and methods used for preserving fresh meats, game, fish, etc.
 Class 603. Factories for canning or curing meat, fish, vegetables and fruit.
 Class 604. Sugar manufactories and refineries.
 Class 605. Manufacture of chocolate and confectioneries.
 Class 606. Preparation of ices and sherbets.
 Class 607. Decortication and roasting of coffee, peanuts, etc.
 Class 608. Vinegar or pickling works.
 Class 609. Distilleries; distillers' machinery and supplies.
 Class 610. Wineries; methods and equipment employed in wine making; wine ferments; wine blending; wine preservatives.
 Class 611. Breweries; brewers' machinery and supplies, etc.
 Class 612. Manufacture of aerated waters; bottling works and machinery.
 Class 613. Various industries for the preparation of foods.
 Class 614. Olive oil presses and clarifying apparatus.

GROUP 124**FARINACEOUS PRODUCTS AND THEIR DERIVATIVES**

- Class 615. Flour from cereals; grain from which the hulls have been removed, groats, potato starch, rice flour, flour from lentils or beans, gluten; prepared cereals.
 Class 616. Tapioca, sago, arrowroot, various starches, malt. Mixed farinaceous products.
 Class 617. Italian pastes: semolina, vermicelli, macaroni, noodles. Home-made pastes.
 Class 618. Infants' and invalids' foods.

GROUP 125**BREAD AND PASTRY**

- Class 619. Breads, with or without yeast, fancy breads and breads in moulds, compressed breads for travelers, military campaigns, etc. Ship biscuits. Yeasts. Baking powders.
 Class 620. Pastry of various kinds peculiar to each country. Ginger bread and dry cakes for keeping.

GROUP 126**PRESERVED MEAT, FISH AND VEGETABLES**

- Class 621. Meat preserved by any process. Salted meats, canned meats. Meat and soup tablets. Meat extracts, soups. Various pork products.
 Class 622. Fish preserved by any process. Salt fish, fish in barrels, cod, herring, etc. Fish preserved in oil; tunny, sardines, anchovies. Fish products; oil, roes, isin-glass, spermaceti, etc.
 Class 623. Canned lobster, canned oysters, canned shrimp, canned turtle, canned terrapin.
 Class 624. Vegetables preserved by various processes.
 Class 625. Army and navy commissary stores and equipment.

GROUP 127

SUGAR AND CONFECTIONERY, CONDIMENTS AND RELISHES; NUT AND FRUIT FOODS

- Class 626. Sugar. Glucose. Syrups.
 Class 627. Confectionery. Chocolate. Glacé fruits.
 Class 628. Foods made from nuts or fruits.
 Class 629. Coffee, tea, substitutes for coffee; mate, chicory and sweet acorns.
 Class 630. Vinegar.
 Class 631. Table salt.
 Class 632. Spices and their derivatives: pepper, cinnamon, allspice, flavouring extracts.
 Class 633. Mixed condiments and relishes: pickles, mustard, curries, sauces.

GROUP 128

WATERS AND UNFERMENTED FRUIT JUICES

- Class 634. Artificially aerated, carbonated or mineral waters, ginger ale, and other non-alcoholic beverages. Soda fountains, carbonating machinery, apparatus and fixtures; filters and methods of purifying water for home use.
 Class 635. Cider and other unfermented fruit juices.

GROUP 129

WINES AND BRANDIES

- Class 636. Dry wines, red and white.
 Class 637. Sweet wines: sherry, madeira, port, angelica, etc.
 Class 638. Sparkling wines.
 Class 639. Brandies.
 Class 640. Grape juice, fermented.

GROUP 130

SYRUPS AND LIQUORS, DISTILLED SPIRITS AND COMMERCIAL ALCOHOL

- Class 641. Syrups and sweet liqueurs: anisette, curacao, ratafia, benedictine, chartreuse, etc.
 Class 642. Aperients having alcohol or wine as a base: absinthe, bitters; vermouth, myrrh, etc.
 Class 643. Commercial alcohols: alcohol made from beets, molasses, grains, potatoes, etc.
 Class 644. Various distilled spirits, whiskey, gin, rum, vodka, kirschwasser, saké, etc.

GROUP 131

FERMENTED BEVERAGES

- Class 645. Cider and perry. Ale, beer, porter and other malt liquors. Pulke, Koumiss and other fermented drinks low in alcohol.

GROUP 133

USEFUL INSECTS AND THEIR PRODUCTS, INJURIOUS INSECTS AND PLANT DISEASES

- Class 655. Systematic collections of useful and injurious insects.
 Class 656. Systematic collections of vegetable parasites from plants and animals.
 Class 657. Bees. Silkworms and other bombycids. Cochineal insects.
 Class 658. Appliances for rearing and keeping bees and silkworms. Bee and silkworm products; honey, wax, cocoons.
 Class 659. Appliances and processes for destroying plant diseases and injurious insects.

GROUP 117

TOBACCO

- Alhambra Cigar & Cigarette Mfg. Co., Manila, P. I. Mfg. products. Av. E, bet. 3rd & 4th.
 Croger Cigar Co., Seattle, Wash. Mfg. products. Av. A & 4th St.
 Cuesta, Rey & Co., Tampa, Florida. Havana Cigars. Av. A & 4th St.
 De Nobili Cigar Co., Long Island, N. Y. Cigars. Av. E & 5th St.
 Falk Tobacco Co., New York, N. Y. Mfg. Products. Av. E, bet. 3rd & 4th Sts.
 Frankel, Gerds & Co., S. F., Cal. Cigars and their manuf. Av. A & 4th St.
 M. A. Gunst & Co., Inc., New York, N. Y. Mfg. products. Av. E, bet. 3rd & 4th Sts.
 Moreda & Co., Inc., New York, N. Y. Cigars. Av. E, bet. 3rd & 4th Sts.
 Petri Italian American Cigar Co., San Francisco, Cal. Cigars. Av. A, cor. 5th St.
 United Cigars Mfrs. Co., New York, N. Y. Cigars. Av. E, bet. 3rd & 4th Sts.
 West Indies Cigar Co., Inc., The, New York, N. Y. Cigars. Av. E, bet. 3rd & 4th Sts.

GROUP 120

VEGETABLE FOOD PRODUCTS AND AGRICULTURAL SEEDS

- Southern Cotton Oil Co., New York, N. Y. Oil, edible. 3rd St., bet. Avs. D & E.

GROUP 122

ANIMAL FOOD PRODUCTS

- Alpine Evaporated Cream Co., San Francisco. Evaporated Milk. 3d St., bet. Avs. B & O.
 Alpine Milk. Plants at Hollister and Gonzales, California. San Francisco Offices, 268 Market Street.
 Borden's Condensed Milk Co., New York. Condensed Milk. 3d St., bet. Avs. O & D.
 Borden's Eagle Brand Condensed Milk; Borden's Evaporated Milk; Borden's Malted Milk; Borden's Sterilized Natural Milk. The Johnson-Locke Mercantile Co., San Francisco, Pacific Coast Representatives.
 California Central Creameries, S. F. Dairy Products. Av. E, cor. 3rd St.
 Citizens' Wholesale Supply Co., Columbus, O. Gelatine, etc. 4th St., bet. Avs. D & E.

Genesee Pure Food Co., Le Roy, N. Y. Gelatine ice cream powders. Av. D, cor. 3d St.

Idaho, State of, Col. Exhibit of Cheese. Agr. Pal. Avs. B & C, bet. 6th & 7th Sts.

Jamison Cold Storage Door Co., Hagerstown, Md. Dairy Equip. Av. B, cor. 6th St.

Libby, McNeill & Libby, Chicago, Ill. Canned Goods. Fd. Pr. Pal., Av. E, cor. 2nd St. Evaporated Milk, Condensed Milk.

Minute Tapioca Co., Orange, Mass. Gelatine. Av. D & 4th St. Minute Gelatine, Measured for use.

Nevada, State of, Collective Exh., Dairy Products. Agr. Pal., Av. A, bet. 9th & 10th Sts.

Pacific Coast Condensed Milk Co., Seattle, Wash. Evaporated Milk, Carnation Milk. Evaporated, Sterilized Milk. Avs. D & E, bet. 3d & 4th Sts.

Rowe's, E. J., Boston. Collective Exh. Pure Foods. Avs. D & E, bet. 3d & 4th Sts.

GROUP 123

EQUIPMENT AND METHODS EMPLOYED
IN THE PREPARATION OF FOODS
AND BEVERAGES

Airseal Vacuum Jar Co., New York, N. Y. Jar used for canning. 4th St., bet. Avs. D & E.

Alaska Packers Association, San Francisco, Cal. Av. C, bet. 1st & 2nd Sts. Illustrating the Salmon Industry; Vessel and Salmon Cannery Models. Salmon Eggs and Fry. Mounted Salmon. Canned Salmon and Salmon Paste.

American Chicle Co., Portland, Ore. Mfg. of Chewing Gum. Av. D, cor. 3rd St.

Anderson-Barngrover Manufacturing Co., San Jose, Cal. Hort. Pal., Av. E. Fruit grader, Canning Tables, Distributing Systems, Slicer, Can Marker; Syrupur, Exhausters and Lye Pealer. Continuous Agitating Cooker & Cooler for canned foods, copper kettle, pulper; Tomato washer, scaldier and conveyor.

Automatic Candy Machine Co., Seattle, Wash. Candy Making Mach. 3d St., bet. Avs. D & E.

Automatic Refrigerating Co., Hartford, Conn. Refrg. Mach. Hort. Pal., 8th St., cor. Av. A.

Ayars Machine Company, Salem, N. J. Canning Machinery. Avs. B & D, between 1st & 2nd Sts. Tomato Filling Machine; Canning Machinery.

Bakers Weekly, New York, N. Y. Publications. Avs. C & D, bet. 2nd & 3rd Sts. A newspaper of interest to the bakers' trade, published weekly.

Berger & Carter Co., S. F. Collective Exh. Hydraulic Press. Mch. Pal., 5th St. & Av. I.

Bernheim Distilling Co., Louisville, Ky. Distilling Mch. 4th St., bet. Avs. D & E.

Bhas, E. W. & Company, Brooklyn, N. Y. Machinery. Automatic machinery for making sanitary cans; automatic machines for forming, beading and flanging round and oval tin cans. See exhibit, Block 16, Machinery Building.

Born, H. A. & Co., Chicago, Ill. Refrigerating Machinery. Av. A & 6th St.

Brandenstein, M. J. & Co., S. F., Cal. Av. E, cor. 3rd St. Coffee roasting and demonstrating; tea packing and demonstrating.

Brunswick-Balke-Collender Co., The, of Cal., S. F. Refrg. Mfr. Pal., Av. A, cor. 6th St.

Columbia Feed Governor Co., Minneapolis, Minn. Avs. C & D, bet. 2nd & 3rd Sts.

De Laval Separator Co., The, New York, N. Y. Agr. Pal., 3rd St., bet. Avs. A & B. De Laval Clarifier and Filter, De Laval Sediment Clarifier, De Laval Yeast Separator. De Laval Dairy Supply Co., San Francisco agents.

Dickerson, F. G., Chicago, Ill. Canning Mach. Pac. Coast Cond. Milk Co.'s Pavilion.

Economic Machy Co., Worcester, Mass. Can Labeling Mch. 6th St., bet. Avs. C & D.

Government of the Philippine Islands, Manila, P. I. Coconut oil press, apparatus for preparing chocolate, corn mill, rice mill.

Grand Rapids Refrigerator Co., Grand Rapids, Mich. 2nd St., bet. Avs. D & E. Leonard Cleanable Refrigerators, "Like a Clean China Dish."

Heppe, L. A., Boston, Mass. Mfr. of Confectionery. Av. E, cor. 4th St.

Hobart Manufacturing Co., The, Troy, O. Coffee Refiner. Av. E, cor. 3rd St. Electric Coffee Mills and Refiners. Jas. H. Stoddard, Sales Agent, 326 Market St., San Francisco; 377 12th St., Oakland.

Howes, The S. Company, Silver Creek, N. Y. Mill Machinery. Avs. C & D, bet. 2nd & 3rd Sts. "Eureka" Grain Cleaning Machinery for Flour, Corn & Cereal Mills, Flour & Feed Packers. Bran Dusters, Dust Collectors, Wheat Washers & Dryers, Feed Mixers, Rice & Coffee Hullers & Separators.

Hughes Electric Heating Co., Chicago, Ill. Avs. C & D, bet. 2nd & 3rd Sts. Electric Stoves, Ranges, Ovens, etc.

Hydraulic Press Mfg. Co., The, Mt. Gilead, O. Oil Press. Mch. Pal., 2nd St., Avs. H & I.

Jamison Cold Storage Door Co., Hagerstown, Md. Refrig. Apparatus. Av. B, cor. 6th St.

Kewanee Water Supply Co., Kewanee, Ill. Refg. Plants. Mch. Pal., 1st & 2d Sts, Av. E.

Loetscher-Ryan Mfg. Co., Dubuque, Ia. Refrg. Mach., etc. 5th St., bet. Avs. D & E.

McClaren, L. L., S. F., Cal. Cook Book. Av. B2, cor. 3rd St.

Meade, L. S., San Francisco, Cal. Packing Devices. Av. D, cor. 2nd St.

Middleby-Marshall Oven Co., Chicago, Ill. Ovens. Avs. C & D, bet. 2nd & 3rd Sts.

National Canners' Assn., Wash., D. C. Collective Exh. Avs. B & D, bet. 1st & 2d Sts.

National Ice Cream Co., S. F., Cal. Mfgs. of Ice Cream. Av. A & 6th St.

Nevada, State of. Paste food & sugar factories. Av. A, bet. 9th & 10th Sts., Agr. Pal.

Pacific Ammonia & Chemical Co., Seattle, Wash. Ammonia. Av. B, cor. 6th St.

Pappas Candy Co., San Francisco, Cal. Mfg. of candy. 3rd St., bet. Avs. D & E.

Pennsylvania Flexible Metallic Tubing Co., Phil., Pa. Mch. Pal., 5th St. & Av. F.

Potato Chip Co., San Jose, Cal. Potato chips. Av. B, bet. 2nd & 3rd Sts.

Quaker Oats Co., The, Chicago, Ill. Prepared Cereals. Av. E, bet. 6th & 7th Sts.

Read Machinery Co., York, Pa. Machinery. Avs. C & D, bet. 3rd & 4th Sts. A complete line of bakers' machinery. See it operating.

Refrigeration Plants Mfg. Co., Los Angeles, Cal. Refrg. Mach. Av. B2, 2nd & 3rd Sts.

Remington Machine Co., Wilmington, Del. Refrigeration Plant. Av. D & 1st St.

Richardson Scale Co., Passaic, N. J. Scales. Avs. C & D, bet. 2nd & 3rd Sts. Scales used in weighing wheat to mill rolls and flour to packing bins.

Rowe's, E. J. Collective exhibit of pure foods. Avs. D & E, bet. 3rd & 4th Sts.

Shredded Wheat Co., The, Niagara Falls, N.Y. Cereals. Av. C, cor. 4th St. Shredded wheat biscuit and triscuit.

Sprague Canning Machy. Co., Chicago, Ill. Avs. B & D, bet. 1st & 2nd Sts.

Union Sanitary Rack Mfg. Co., Albion, Mich. Av. B2, bet. 2nd & 3rd Sts.

Vulcan Iron Works, San Francisco, Cal. Refrigerating Machinery. Avs. C & D, bet. 7th & 8th Sts. Refrigerating and Ice Plants of any desired capacity. Special Class Small Machines. Special Marine Type Machines. Works: Francisco & Kearny Sts.

Washington, State of. Collective Exhibit of salmon canning mchly. 6th St., bet B & C.

White Frost Refrigerator Co., Jackson, Mich. Refrigerators. Av. D, cor. 3rd St.

Wolf Co., The, Chambersburg, Pa. Flour Mill Mach. Avs. C & D, bet 2nd & 3rd Sts.

York Manufacturing Co., York, Pa. Refrigerating Machinery. Av. B, cor. 6th St. Appliances of any desired capacity for the refrigeration and preservation of food. Ice Making Plants. Ammonia fittings and supplies. Special class small machines.

GROUP 124

FABINAGEOUS PRODUCTS AND THEIR DERIVATIVES

Albers Bros. Milling Co., San Francisco, Cal. Prepared Cereals. Av. C, cor. 3rd St. Albers Flapjack Flour; Albers Buckwheat Flour; Albers Corn Meal; Albers Peacock Family Flour; Albers Pearls of Wheat; Albers Pearl Barley; Albers Steel Out Oat Meal; Albers Rolled Oats; Albers Wheat Flakes; Carnation Wheat Flakes; Carnation Rolled Oats; Carnation Granulated Wheat. Mills and offices at Portland, Tacoma, Seattle, Oakland, San Francisco and Los Angeles.

Brandenstein, M. J. & Co., San Francisco, Cal. Av. E, cor. 3rd St. Rices, Foreign and Domestic.

Citizens' Wholesale Supply Co., Columbus, O. Cereals, etc. 4th St., bet. Avs. D & E.

Government of the Philippine Islands, Manila, P. I. Rice, tapioca, sago, starches, arrow-root.

Heinz, H. J. & Co., Pittsburgh, Pa. Italian Pastes. Av. C, cor. 3rd St.

Idaho, State of. Flour exhibit. Avs. B & C, bet. 6th & 7th Sts.

Louisiana, State of. Collective exhibit of Italian pastes. Avs. B & C, bet. 8th & 10th Sts., Agr. Pal.

Minute Tapioca Co., Orange, Mass. Tapioca. Av. D & 4th St. Minute Tapioca—Requires no soaking.

Mueller, C. F. Co., New York, N. Y. Italian pastes. 4th St., bet. Avs. C & D.

Nevada, State of. Collective exhibit of Flour. Av. A, bet. 9th & 10th Sts., Agr. Pal.

Pacific Cereal Association, San Francisco, Cal. Prepared Cereals. Av. C, cor. 3rd St.

Quaker Oats Co., The, Chicago, Ill. Prepared Cereals. Av. E, bet. 6th & 7th Sts.

Rowe's, E. J., Boston, Mass. Collective exh. of Pure Foods. Avs. D & E, bet. 3rd & 4th.

Shredded Wheat Co., The, Niagara Falls, N.Y. Prepared Cereals. Av. C, cor. 4th St.

Sperry Flour Co., S. F., Cal. Prepared cereals, flour, etc. Avs. C & D, bet. 2nd & 3rd Sts.

GROUP 125

BREAD AND PASTRY

American Biscuit Co., San Francisco, Cal. Crackers. 2nd St., bet. Avs. D & E. Royal Soda Crackers in cartons and bulk; Crackers and Cakes in cartons and bulk; Fiesta Sugar Wafers and Yosemite Creams; Pilot Bread; Army and Navy Hard Bread; Dainty Chips; Snowflakes; Water Wafers; Panama Creams; High Teas; Tango Chips; Exquisite Wafers—Cheese Sandwiches.

Citizens' Wholesale Supply Co., Newark, N. J. Baking Powder. 4th St., bet. Avs. D & E.

Crescent Manufacturing Co., Seattle, Wash. Baking Powder. Av. B2, cor. 2nd St.

Jones-Thierback Co., S. F., Cal. Baking Powder. Av. C, cor. 2nd St.

Sperry Flour Co., S. F., Cal. Bread, etc. Avs. C & D, bet. 2nd & 3rd Sts. Bread & Pastry of various countries.

Washington, State of. Food Products Exhibit. 6th St., bet. Avs. B & C.

GROUP 126

PRESERVED MEAT, FISH AND VEGETABLES

Agencias de Berna, S. F. Preserved vegetables and fruits. 6th St., bet. Avs. B & C.

Ainsworth & Dunn, Seattle, Wash. Canned salmon. 1st St., cor. Av. C.

American Kitchen Products Co., New York, N. Y. Av. E, cor. 4th St. Makers of "Sterro" Cubes "A cube makes a cup." Just add boiling water. Delicious wholesome Bouillon instantly. Improves flavor of Soups, Sauces & Gravies. Visit Exhibit in Pal. of Pure Foods. A cup of Hot "Sterro" served free.

Alaska Fish Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.

Alaska Pacific Fisheries Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.

Alaska Packers Association, San Francisco, Cal. Av. C, bet. 1st & 2nd Sts. Illustrating the salmon industry; vessel and salmon cannery; models; salmon eggs and fry; mounted salmon; Canned Salmon and Salmon Paste. Local Office, Wells Fargo Building, San Francisco.

Alaska Portland Packers Assn., Portland, Ore. Canned salmon. 1st St., cor. Av. C.

Alaska Salmon Co., S. F. Canned salmon. 1st St., cor. Av. C.

Alaska Sanitary Packing Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.

Andreas, Mrs. A. L., Jamaica, N. Y. Collective Exhibit. 4th St., bet. Avs. D & E.

Apex Fish Co., Anacortes, Wash. Canned salmon. 1st St., cor. Av. C.

Astoria & Puget Sound Packing Co., Bellingham, Wash. 1st St., cor. Av. C.

Barnes, F. C. & Co., Portland, Ore. Canned salmon. 1st St., cor. Av. C.

Bellingham Canning Co., Bellingham, Wash. Canned salmon. 1st St., cor. Av. C.

Blaine Packing Co., Blaine, Wash. Canned salmon. 1st St., cor. Av. C.

Booth Fisheries Co., Astoria, Ore. Canned salmon. 1st St., cor. Av. C.

Bristol Bay Packing Co., San Francisco, Cal. Canned salmon. 1st St., cor. Av. C. "Bristol," "Battle Ax," "Frost King," "Morse Queen," "Alaska Bear," "Paramita," "New Year," "Silver Net."

Cal. Fruit Cannery's Assn., S. F., Cal. Preserved Vegetables. Av. B, bet. 1st & 2nd.

- Citizens' Wholesale Supply Co., Columbus, O. Beef Extracts. 4th St., bet. Avs. D & E.
- Columbia River Packers' Assn., Astoria, Ore. Canned salmon. 1st St., cor. Av. C.
- Coquille River Fishermen's Co-Op Pkg. Co., Prosper, Ore. Canned salmon. 1st, cor. C.
- Deep Sea Salmon Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. O.
- Everett Packing Co., Everett, Wash. Canned salmon. 1st St., cor. Av. C.
- Fidalgo Island Packing Co., Anacortes, Wash. Canned salmon. 1st St., cor. Av. C.
- Friday Harbor Packing Co., Friday Harbor, Wash. Canned salmon. 1st St., cor. Av. C.
- Gorman & Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Harbor Packing Co., Pt. Blakeley, Wash. Canned salmon. 1st St., cor. Av. C.
- Hawk Fish Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Heinz, H. J. Co., Pittsburgh, Pa. Soups, Preserved Meats, etc. Av. C, cor. 3rd St.
- Hoonah Packing Co., Port Townsend, Wash. Canned salmon. 1st St., cor. Av. C.
- Key City Packing Co., Port Townsend, Wash. Canned salmon. 1st St., cor. Av. C.
- Klamath River Packing Co., Requa, Cal. Canned salmon. 1st St., cor. Av. C.
- Libby, McNeill & Libby, Chicago, Ill. Canned Meats. Fd. Pr. Pal., Av. E, cor. 2nd St. Cooked Corned Beef, Roast and Cottage Beef, Ox Tongues, Boneless Chicken, Veal, Beef and Ham Loaf, Chicken Loaf, Frankfurter Bratwurst, Sliced Bacon, Corned Beef Hash, Roast Beef Hash, Chop Suey, Tripe, Lunch Tongues, Lamb Tongues, Dried Beef, Hamburger Steak & Onions, Pigs' Feet, Pork & Beans, Vienna Sausage, Soups, Extract of Beef, Brisket Beef, Pork Sausage, Club House Sausage, Chili Con Carne, Deviled Ham, Potted Ham, Deviled Meats, Potted Meats, Roast Mutton, Stewed Kidneys, Minced Collops, Minced Steak, Oxtails, Boiled Beef, Irish Stew, Oxford Sausage, Soup Bouilli, Mince Meat, Tamales, Bouillon Cubes, Beef and Vegetables, Canned Salmon, Canned Vegetables, California Asparagus, Spinach, Tomatoes, String Beans, Beets, Cabbage, Sweet Potatoes, Carrots, Squash, Sauer Kraut.
- Libby, McNeill & Libby, Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Louisiana, State of. Collective exhibit of canned fish and vegetables. Avs. B & C, bet. 8th & 10th Sts., Agr. Pal.
- Lummi Bay Packing Co., Bellingham, Wash. Canned salmon. 1st St., cor. Av. C.
- MacLeay Estate Co., Rogue River, Ore. Canned salmon. 1st St., cor. Av. C.
- Martin, E. C., Auburn, N. Y. Vegetables. Hort. Pal., 2nd St., cor. Av. D. Preserved vegetables and fruit; brandied and pickled peaches.
- McGowan, P. J. & Sons, McGowan, Wash. Canned salmon. 1st St., cor. Av. C.
- Megler, J. G. & Co., Brookfield, Wash. Canned salmon. 1st St., cor. Av. C.
- Monterey Packing Co., S. F. Canned sardines, canned shad & canned shad roe. 1st & Av. D.
- Myers, Geo. T. & Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Naknek Packing Co., San Francisco. Canned salmon. 1st St., cor. Av. C.
- Nevada, State of. Processed vegetables. Agr. Pal., Av. A, bet. 9th & 10th Sts.
- N. Alaska Salmon Co., San Francisco. Canned salmon. 1st St., cor. Av. C.
- N. Pacific Trading & Packing Co., S. F. Canned salmon. 1st St., cor. Av. C.
- Northwestern Fisheries Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Oregon Fisheries Co., Bay City, Ore. Canned salmon. 1st St., cor. Av. C.
- Pacific Am. Fisheries, Bellingham, Wash. Canned salmon. 1st St., cor. Av. C.
- Pacific Fisheries Packing Co., Aberdeen, Wash. Canned clams. Av. C, bet. 1st & 2nd Sts.
- Pierce, O. E. Co., Inc., San Francisco, Cal. Preserved fish. Avs. C & D, bet. 1st & 2nd.
- Pillar Bay Packing Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Pillar Rock Packing Co., Portland, Ore. Canned salmon. 1st St., cor. Av. C.
- Pt. Warde Packing Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Red Salmon Canning Co., San Francisco. Canned salmon. 1st St., cor. Av. C.
- Richardson & Robbin Co., Dover, Del. Chicken products, ham. 4th St., bet. Avs. D & E.
- Rowe's, E. J., Boston, Mass. Collective Exh. of Pure Foods. Avs. D & E, bet. 3rd & 4th.
- Sanborn, Cram & Co., Astoria, Ore. Canned salmon. 1st St., cor. Av. C.
- Sanborn, Cutting Co., Astoria, Ore. Canned salmon. 1st St., cor. Av. C.
- San Juan Canning Co., Friday Harbor, Wash. Canned salmon. 1st St., cor. Av. C.
- San Juan Fish Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Seufert Bros., The Dalles, Ore. Canned salmon. 1st St., cor. Av. C.
- Sims, E. A., Port Townsend, Wash. Canned salmon. 1st St., cor. Av. C.
- Smiley, J. L. & Co., Blaine, Wash. Canned salmon. 1st St., cor. Av. C.
- Starr, Collinson Packing Co., Portland, Ore. Canned salmon. 1st St., cor. Av. C.
- Sunny Point Packing Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Taku Canning & Cold Storage Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Tallant, Grant Packing Co., Astoria, Wash. Canned salmon. 1st St., cor. Av. C.
- Thlinket Packing Co., Portland, Ore. Canned salmon. 1st St., cor. Av. C.
- Union Fish Co., San Francisco, Cal. Codfish. Avs. C & D, bet. 1st & 2nd Sts.
- Union Fishermen's Co-Op Packing Co., Astoria, Ore. Canned salmon. 1st St., cor. C.
- Warren Packing Co., Portland, Ore. Canned salmon. 1st St., cor. Av. C.
- Washington, State of. Collective exhibit of canned fish. 6th St., bet. Avs. B & C.
- Weise Packing Co., Seattle, Wash. Canned salmon. 1st St., cor. Av. C.
- Willapa Harbor Fish Co., Willapa, Wash. Canned salmon. 1st St., cor. Av. C.
- Workman Packing Co., San Francisco, Cal. Tamales. 4th St., bet. Avs. C & D.

GROUP 127

SUGAR AND CONFECTIONERY; CONDIMENTS AND RELISHES; NUT AND FRUIT FOODS

- Andres, Mrs. A. Louise, Jamaica, N. Y. Collective exhibit of standard food products and modern kitchen equipment. 4th St., bet. Avs. D & E.

- Baker, Walter & Co., Ltd., Boston, Mass.** Chocolate, cocoa. Av. C, bet. 3rd & 4th Sts. Chocolate unsweetened, chocolate sweetened. Johnson-Locke Mercantile Co., San Francisco, Coast representative.
- Blanke, C. F. Tea & Coffee Co., St. Louis, Mo.** Tea & coffee. 6th St., bet. Avs. B & C.
- Borden's Condensed Milk Co., New York, N.Y.** Borden's Confectionery. 3rd St., bet. Avs. C & D. The Johnson-Locke Mercantile Co., San Francisco, Pacific Coast representative.
- Brandenstein, M. J. & Co., S. F., Cal.** Coffee, Tea. Coffee roasting and demonstrating; tea packing and demonstrating. Av. E, cor. 3rd St.
- Cal. Fruit Cannery Assn., S. F.** Sauce and catsup. Av. B, bet. 1st & 2nd Sts.
- Citizens' Wholesale Supply Co., The, Columbus, O.** Food products. 4th, bet. Avs. D & E.
- Compania General de Tabacos de Filipinas, Manila, P. I.** Sugar from cane.
- Crescent Mfg. Co., Seattle, Wash.** Flavoring. Av. B2, cor. 2nd St.
- Curtis, Emma E., Melrose, Mass.** Confectionery. Direct Imp. Av. E & 3rd St.
- J. A. Folger & Company, San Francisco, Cal.** 4th St., bet. Avs. B2 & C. Coffee, teas, spices, baking powder and flavoring extracts.
- Garritt, F. E., San Mateo, Cal.** Mixed condiments, etc. Av. B2, cor. 3rd St.
- Ghiradelli, D. Co., San Francisco, Cal.** Chocolate, cocoa. Av. D, cor. 4th St.
- Government of the Philippine Islands, Manila, P. I.** Sugar, coffee, chocolate, vinegar, pepper, etc.
- Granadag Co., Santa Clara, Cal.** Confectionery. Av. B & 2nd St.
- Heinz, H. J. Co., Pittsburgh, Pa.** Relishes, etc. Av. C, cor. 3rd St.
- Heppe, L. A., Boston, Mass.** Confectionery, etc. Av. E, cor. 4th St.
- Hills Bros., San Francisco, Cal.** Coffee, tea & spices. Av. D, cor. 2nd St. Red can Vacuum Packed Coffee.
- Jones-Thierbach Co., San Francisco, Cal.** Tea, coffee, spices. Av. C, cor. 2nd St.
- Lady Betty, Inc., Brookline, Mass.** Relishes. Av. B, cor. 3rd St.
- Libby, McNeill & Libby, Chicago, Ill., San Francisco, Cal.** Condiments, canned goods. Av. E, cor. 2nd St. Mixed condiments and relishes; sweet pickles, chow chow, sour pickles, pickled onions, sweet relish, tomato catsup, Worcestershire sauce, Chili sauce, pepper sauce, salad dressing, mustard tomato chutney, evaporated horse radish, mixed pickles.
- Louisiana, State of.** Collective exhibit of sugar and condiments and relishes. Avs. B & C, bet. 8th & 10th Sts.
- Lowney, The Walter M. Co., Boston, Mass.** Confectionery. Avs. D & E, bet. 3rd & 4th Sts. Chocolate, cocoa and bon bons.
- Lyon's California Glace Fruit Co., San Francisco, Cal.** Glace Fruits. Av. C, cor. 5th St.
- Martin, E. C., Auburn, N. Y.** Pickles. Hort. Pal., 2nd St., cor. Av. D.
- McCormick & Company, Baltimore, Md.** Teas, Spices, Teas, Banquet Brand, Spices, Bee Brand, Extracts, Bee Brand, Green Seal Salad Dressing, Banquet Mayonnaise Dressing. 3rd St., bet. Avs. O & D.
- Banquet Tea, Bee Brand Spices and Flavoring Extracts.**
- Morton Salt Co., Chicago, Ill.** Table Salt. 4th St., bet. Avs. D & E.
- Nevada, State of.** Collective exhibit of food products. Agr. Pal., Av. A, bet. 9th & 10th.
- Pacific Coast Syrup Co., San Francisco, Cal.** Syrups. Hort. Pal., 4th St., cor. Av. D.
- Palisade Mfg. Co., The, West Hoboken, N. J.** Extracts. 4th St., bet. Avs. D & E.
- Pappas, A. Candy Co., San Francisco, Cal.** Candy. 3rd St., bet. Avs. D & E.
- Porter, Mrs. M. A., Seattle, Wash.** Salad Dressing. Av. B2 & 3rd St. Mrs. Porter's Mayonnaise & Peanut Butter.
- Reynolds Chocolate Co., Boston, Mass.** Chocolate, cocoa, candy, etc. Av. E & 3rd St.
- Ridgways, Inc., New York, N. Y.** Tea. Av. C, cor. 4th St. India and Ceylon Teas. Established 1836. Chief Offices United States: New York, 111-113 Hudson St.; Chicago, 352-354 North Michigan Av.; San Francisco, Haas Bros., distributors.
- Rowe's E. J., Boston, Mass.** Collective Exh. Pure Foods. Avs. D & E, bet. 3rd & 4th Sts.
- Sauer, C. F. Company, Richmond, Va.** Flavoring extracts. 3rd St., bet. Avs. D & E. Flavouring extracts also at 5th St., bet. Avs. B & O.
- Urquijo, Zuloagay Escobi, Iloilo, P. I.** Sugar from cane.
- Warner & Barnes Co., Manila, P. I.** Sugar from cane.
- Wright, E. A., Oakland, Cal.** Sauces. Hort. Pal., Av. D, cor. 7th St.

GROUP 128

WATERS AND UNFERMENTED FRUIT JUICES

- Am. Steel & Wire Co., Chicago, Ill.** Sulphate of iron exhibit. Min. Pal., Av. D.
- Castilla Hot Springs Co., Castilla, Utah.** Mineral Water. Av. A, cor. 6th St.
- Forbes & Co., J. P., Alameda, Cal.** Mineral Water. Av. A & 5th St.
- Louisiana, State of.** Collective exhibit of carbonated waters. Avs. B & C, bet. 8th & 10th Sts., Agr. Pal.
- Missouri State Commission, Aurora, Mo.** Tripoli Filters. Min. Pal., Av. A & 6th St.
- National Pure Water Co., Kansas City, Mo.** Water purifying mach. Av. B, cor. 6th St.
- Rowe's, E. J., Boston, Mass.** Collective Exh. of pure foods. Avs. D & E, bet. 3d & 4th Sts.
- Seunenicht, E., Inc., Scranton, Pa.** Beverages. 5th St., bet. Avs. B & C. Solosekt, Apple wine, de-alcoholized; Temparale, Fruit Juice & Carbonic Water; Nonparella, Clarified Grape Juice, Appela, Refined Cider, Carbonated. Write for free copy "Beverage Question."
- U. S. Steel Corp'n. Subsid. Co's., N. Y.** Collective iron & steel exh. Min. Pal., Av. D.
- Welch Grape Juice Co., The, Westfield, N. Y.** Grape juice. Av. D & 4th St.
- Witter Medical Springs Co., San Francisco, Cal.** Mineral Water. Av. A, bet. 5th & 6th.
- Wright, E. A., Oakland, Cal.** Fruit Nectar. Hort. Pal., Av. D, cor. 7th St.

GROUP 129

WINES AND BRANDIES

- Agencias de Berna, S. F. Cal.** Sweet Wines. 6th St., bet. Avs. B & C.
- Arnhold, B., & Co., Inc., S. F. Cal.** Cal. dry, sweet and sparkling wines. 4th St., bet. Avs. C & D.

- Ayala Distillery, Manila, P. I.** Commercial alcohol, wine, gin, made from sugar.
- Berlinger Bros., St. Helena, Cal.** Cal. dry wines and brandy. 4th St., bet. Avs. C & D.
- Bran & Chair, Messrs., Oakville, Cal.** Dry Wines. 4th St., bet. Avs. C & D.
- Cal. Viticultural Exhibit Ass'n, S. F.** Avs. C & D, bet. 4th & 5th Sts. Col. Wine Exh.
- Cal. Wine Ass'n, S.F., Cal.** Cal. dry and sweet wines & brandy. 4th St., cor. Av. C.
- Cal. Winery Co., Sacramento, Cal.** Cal. dry and sweet wines. 4th St., bet. Avs. C & D.
- Calwa Dist. Co., S. F.** Cal. dry and sweet wines & brandies. 4th St., bet. Avs. C & D.
- Chanche & Bon, S. F.** Cal. dry and sparkling wines. 5th St., bet. Avs. C & D.
- Compania General de Tabacos de Filipinas, Manila, P. I.** Commercial alcohol, wine, gin, made from sugar.
- Oresta Bianca Wine Co., S.F.** Cal. Dry & Sweet Wines, Brandies & Champagnes. Av. D, 4th.
- Da Rosa Estate, Elk Grove, Cal.** Dry & sweet wines. 5th St., bet. Avs. C & D.
- Dresel C. & Company, Sonoma, Cal.** Dry Wines & Brandy. Av. C & 5th St.
- Finkes' Widow, A., S.F., Cal.** Cal. dry, sweet & spkig. wines & brandy. 5th, bet. Avs. C & D.
- French American Wine Co., S.F., Cal.** Cal. dry wines & brandy. 5th St., bet. Avs. C & D.
- Fulton Winery Co., S. F.** Cal. Dry Wines. 5th St. & Av. C.
- Gier, Theo., Oakland, Cal.** Cal. dry and spkig. wines. Av. D, bet. 4th & 5th Sts.
- Grau & Werner, Irvington, Cal.** Cal. dry wines. 4th St. & Av. D.
- Gundlach-Bundschu Co., S. F.** Cal. dry and sweet wines. 5th St., bet. Avs. C & D.
- Guasti, S., Los Angeles, Cal.** Cal. dry and sweet wines. 4th St., bet. Avs. C & D.
- Italian Swiss Colony, S. F.** Cal. dry & sweet spkig. wines & brandies. 5th St., cor. Av. C.
- Korbel, F. & Bros., Guerneville, Cal.** Cal. dry wines; champagne, brandy. 5th St., cor. D.
- Krug, Chas. Winery, St. Helena, Cal.** Cal. dry wines. 4th St., bet. Avs. C & D.
- Kunde, Louis, Glen Ellen, Cal.** Dry Wines. Av. D & 4th St.
- Lachman & Jacobi, S. F.** Cal. dry & sweet wines. Av. D, bet. 4th & 5th Sts.
- Lancel & Co., E. H., S. F.** Dry Wines. Av. D & 4th St.
- Lint, P. P., Los Gatos, Cal.** Cal. dry and sweet wines; brandy. 4th St., bet. Avs. C & D.
- Madera Vineyard & Wine Co., S. F.** Sweet Wines & Brandies. 5th St., bet. Avs. C & D.
- Masson, Paul Champagne Co., San Jose, Cal.** Champagne. 4th St., cor. Av. D.
- Mattie, A., Malaga, Cal.** Cal. dry & sweet wines; brandy. 4th St., bet. Avs. C & D.
- Mt. Diablo Vineyard & Wine Co., S. F.** Dry Wines. 5th St., bet. Avs. C & D.
- Mt. Hamilton Vineyard, San Jose, Cal.** Dry Wines. Av. C & 5th St.
- Repsold, A. Co., S. F.** Cal. dry and sweet wines and cognac. 4th St., bet. Avs. C & D.
- Rixford, E. H., S. F.** Cal. dry wines. 5th St., Av. D.
- Rosenblatt Co., The, S. F.** Cal. wines and brandies. Av. C, cor. 6th St.
- Sacto. Valley Winery, Sacramento, Cal.** Cal. dry & sweet wines. 5th St., bet. Avs. C & D.
- Salma, F. & Co., St. Helena, Cal.** Cal. dry wines. 4th St., bet. Avs. C & D.
- Shilling, C. & Co., S. F.** Cal. dry & sweet wines. 4th St., bet. Avs. C & D.
- Sonoma Wine & Brandy Co., Stockton, Cal.** Dry & Sweet Wines. 4th St., bet. Avs. C & D.
- Tokalon Vineyard Company, Napa, Cal.** Dry Wines. 4th St., bet. Avs. C & D.
- Wahner, Wm., Evergreen, Cal.** Cal. dry wines. 5th St., bet. Avs. C & D.
- West & Son, Geo., Stockton, Cal.** Dry & Sweet Wines. 4th St., bet. Avs. C & D.

GROUP 130

SYRUPS AND LIQUORS, DISTILLED SPIRITS AND COMMERCIAL ALCOHOL

- Bernheim Distilling Co., Louisville, Ky.** Whiskey. 4th St., bet. Avs. D & E.
- Bouvier Specialty Co., Louisville, Ky.** Gin. Av. A, bet. 4th & 5th Sts.
- Hamburger Distillery, Ltd., Pittsburgh, Pa.** Rye Whiskey. Av. A & 6th St.
- Large Distilling Co., The, Pittsburgh, Pa.** Rye Whiskey. 6th St., bet. Avs. B & C.
- Louisiana, State of.** Collective exhibit of syrups and liquors, alcohol. Avs. B & C, bet. 8th & 10th Sts., Agr. Pal.
- Rosenblatt Co., The, San Francisco, Cal.** Cordials. Av. C, cor. 6th St.
- Van Bergen, M. & Co., San Francisco, Cal.** Hufeland Tonic Bitters. Av. D, cor. 5th St.

GROUP 131

FERMENTED BEVERAGES

- Government of the Philippine Islands, Province of Ilocos Sur, Vigan, Ilocos-Sur, P. I.** Basi (made from juice of sugar cane).
- Mountain Province, Lepanto, M. Province, P. I.** Tapuy (made from rice).
- Seattle Brewing & Malting Co., Seattle, Wash.** Bottled & draught beer. Av. C, cor. 6th St.

GROUP 133

USEFUL INSECTS AND THEIR PRODUCTS INJURIOUS INSECTS AND PLANT DISEASES

- California Bee Keepers' Ass'n, Salida, Cal.** 6st St., bet. Avs. A & B. Bees; honey, etc.
- California Fruit Cannors' Ass'n, S. F., Cal.** Honey. Av. B, bet. 1st & 2nd Sts.
- Montana, State of.** Collective exh. of honey. Agr. Pal., Avs. A & B, bet. 8th & 9th Sts.
- Nevada, State of.** Agr. Pal., Av. A, bet. 9th & 10th Sts. Honey.
- Pacific Coast Syrup Co., S. F., Cal.** Honey. Hort. Pal., 4th St., cor. Av. D. Strained honey, and in comb.
- Wright, E. A., Oakland, Cal.** Hort. Pal., Av. D, cor. 7th St. Honey.

STATE EXHIBITS

CALIFORNIA

Location: Avs. C & D, bet. 5th & 6th Sts.

The complete list of exhibits from California in the Department of Food Products will appear in revised edition of the Catalogue.

WASHINGTON

Location: 6th St., bet. Avs. B and C.

GROUP 123

- Burpee & Letson, Bellingham.** Salmon canning and weighing machinery.
- Seattle-Astoria Iron Works, Seattle.** Salmon canning and weighing machinery.
- Smith Cannery Machine Co., Seattle.** Salmon canning and weighing machinery.

GROUP 125

Shibata, U. Co., Seattle. Rice cakes.

GROUP 126

Washington, State of.—Processed fish.
Sea Beach Packing Co., Aberdeen. Can. clams

NEVADA

Palace of Agriculture

Location: Ave. A, bet. 9th and 10th Sts.

GROUP 122

Crescent Creamery.—Reno. Butter
Deeth Creamery.—Deeth. Butter.
Jensen Creamery.—Reno. Butter.
Lamoille Creamery.—Lamoille. Butter.
Minden Butter Co.—Minden. Butter.
Queen Creamery.—Smith. Butter.
Loveclock Creamery.—Loveclock. Butter.
Ranelli, Caesar.—Reno. Cheese.
South Fork Creamery.—Reno. Butter.
Standard Creamery.—Reno. Butter.
University Dairy.—Reno. Butter, cheese.
Yerington Creamery.—Yerington. Butter.

GROUP 123

Nevada, State of.—Reno. Flour mills.
Nevada Sugar Co.—Fallon. Sugar factory.
Riverside Mill Co.—Reno. Paste foods.

GROUP 124

Douglas Milling Co.—Gardnerville. Flour.
Fallon Milling Co.—Fallon. Flour.
Mason Valley Milling Co.—Nurdyke. Flour.
Minden Flour Co.—Minden. Flour.
Paradise Valley Mill.—Paradise. Flour.
Reno Flour Milling Co.—Reno. Flour.
Riverside Mill Co.—Reno. Flour.

GROUP 128

Antelope Land & Ctie. Co.—Yerington. Turnips
Baroni, D.—Dayton. Celery.
Barrett, G. A.—Mason. Potatoes, Rhubarb.
Barrett, H.—Yerington. Carrots.
Cross, E.—Yerington. Potatoes.
Dapoli, J.—Dayton. Parsnips.
Day, Chas.—Wellington. Cantaloupe.
Fenili, F.—Nurdyke. Kale.
Fox, C.—Yerington. Horseradish.
Hardy, Mrs. L.—Wellington. Parsley.
Hillygus, J.—Mason. Tomatoes.
Kremmel, C. H.—Mason. Corn, Potatoes.
Podi, F.—Yerington. Alfalfa.

Pursel Bros.—Yerington. Beets.
Quilici, V.—Dayton. Cauliflower.
Santina, J.—Wabuska. Onions.
Scotia, A.—Yerington. Parsley.
Schact, Wm.—Yerington. Sugar Beets.
Shirley, F.—Dayton. Tomatoes, Peanuts.
Snyder, J.—Yerington. Tomatoes.
Strosnider, I. A.—Yerington. Carrots.
Warren, H.—Wabuska, Casaba.

GROUP 127

Black, C.—Deeth. Vinegar.
Guthrie, E. M.—Reno. Vinegar.
Nevada Sugar Co.—Fallon. Sugar.

GROUP 133

Barlow, A. H.—Mason. Honey.
Bechtel, I.—Loveclock. Honey.
Bower, G. M.—Lamoille. Honey.
Earl, J. I.—Overton. Honey.
Graham, G. C.—Reno. Honey.
Griffith, W. W.—Las Vegas. Honey.
Guthrie, E. M.—Reno. Honey.
Jensen, E.—Reno. Honey.
Penrose, Wm.—Wabuska. Honey.
Schweis, G. C.—Reno. Honey.
Swingle, C. G.—Hazen. Honey.
Trickey, G. C.—Reno. Honey.

IDAHO

Palace of Agriculture

Location: Aves. B & C, bet. 6th & 7th Sts.

GROUP 124

St. Anthony Milling & Elevator Co.—St. Anthony. Flour.

MONTANA

Palace of Agriculture

Location: Aves. A & B, bet. 8th & 9th Sts.
Streets

GROUP 133

Copenhaver, Dr.—Helena. Honey.
Kleinhesselnick, B. J.—Big Timber. Honey.

UNITED STATES GOVERNMENT EXHIBIT

PALACE OF FOOD PRODUCTS

Location: Ave. D & 2nd St.

UNITED STATES BUREAU OF FISHERIES

The complete list of exhibits of the Bureau of Fisheries will appear in the revised edition of the catalogue.

FOREIGN EXHIBITS

ARGENTINE

Location: 1st St., bet. Aves. A and B.

The complete list of exhibits from Argentine in the Department of Agriculture will appear in revised edition of the Catalogue.

CUBA

Location: Av. A, bet. 1st and 2nd Sts.

The complete list of exhibits from Cuba in the Department of Agriculture will appear in revised edition of the Catalogue.

ENGLAND

Location: 4th St., bet. Aves. A and B.

GROUP 127

Lipton, Thos. S., London. Tea, coffee, jelly tablets.

GROUP 128

Burke, Edw. & John, Ltd., New York. Aerated beverages.

GROUP 130

Burnett, Sir Robert & Co., New York. Gin.

Dewar, John & Sons, Ltd., Perth, Scotland. Scotch whiskey.

Gillon, John & Co., Leith, Scotland. Scotch whiskey.

FRANCE

Location: Av. C, bet. 1st and 2nd Sts.

The complete list of exhibits from France in the Department of Agriculture will appear in revised edition of the Catalogue.

GREECE

Location: 3rd St., bet. Aves. A and B.

The complete list of exhibits from Greece in the Department of Agriculture will appear in revised edition of the Catalogue.

ITALY

Location: Av. A, bet. 1st and 2nd Sts.

The complete list of exhibits from Italy in the Department of Agriculture will appear in revised edition of the Catalogue.

JAPAN

Location: Aves. A & B, bet. 2nd & 3rd Sta.
GROUP 120

San Chu Shoten—Kanagawa. Beans.
Kanagawaken Nogai—Kanagawa. Peanuts.
Nozawa-Gumi—Kanagawa. Beans.
Chibaken Bakkasei Dogyo Kumiai—Chiba.
Peanuts.
Hokkaido Nokai—Hokkaido. Beans.
Taihokuchō Nokai—Taihoku. Peanuts.
Kagicho Nokai—Kagi. Peanuts.
Shizuokakon Shoga, Hechima, Koshō Bakkasei Dogyo Kumiai—Shizuoka. Peanuts.

GROUP 121

Hideo Ishiwata—Shizuoka. Cortinellus Shiitake.
Tōtare Uchida—Oita. Cortinellus Shiitake.
Kyunake Yamatsumi—Miyazaki. Cortinellus Shiitake.

GROUP 124

Kumamoto Menrui Dogyo Kumiai—Kumamoto. Vermicelli.
Kihai Nihonki—Kumamoto. Vermicelli.
Tooru Tsuru—Kumamoto. Vermicelli.
Gajiro Akita—Tokushima. Vermicelli.
Einjiro Takata—Tokushima. Vermicelli.
Jusaburo Yamamoto—Tokushima. Vermicelli.
Banshu-Iho Gun Somen Dogyo Kumiai—Hyogo. Vermicelli.
Kanzakigun Somen Dogyo Kumiai—Hyogo. Vermicelli.
Sesshu Nada Somen Seizo Dogyo Kumiai—Hyogo. Vermicelli.
Awajinokuni Miharagun Somen Dogyo Kumiai—Hyogo. Vermicelli.
Sakuchi Yamakawa—Saga. Vermicelli.
Heikichi Ichibakese—Saga. Vermicelli.
Haruichiro Hideshima—Saga. Vermicelli.
Sanchu Shokai—Kanagawa. Buckwheat Noodle.
Nippon Seimai Seifun Kabushiki Kaisha—Hyogo. Rice.
Nippon Beikoku Kabushiki Kaisha—Hyogo. Rice.
Hyogoken Nokai—Hyogo. Rice.
Niigataken Nokai—Niigata. Rice.
Ibaragiken Nokai—Ebaragi. Rice.
Tochigiken Nokai—Tochigi. Rice.
Miyeken Nokai—Miyē. Rice.
Oomiai Dogyo Kumiai—Oomi. Rice.
Yamagataken Nokai—Yamagata. Rice.
Ishikawaken Nokai—Ishikawa. Rice.
Toyamaken Nokai—Toyama. Rice.
Okayamaken Nokai—Okayama. Rice.
Bocho Kome Dogyo Kumiai—Yamaguchi. Rice.
Kagawaken Nokai—Kagawa. Rice.
Fukuokaken Nokai—Fukuoka. Rice.
Higo Beiken Soko Kumiai—Kumamoto. Rice.
Miyazakiken Nokai—Miyazaki. Rice.
Kagoshimaken Nokai—Kagoshima. Rice.

GROUP 126

Murata Co.—San Francisco. Gold Fish and Tortoise. Pal. Hort., Av. M.
Nippon Gyogyo Kabushiki Kaisha—Tokyo. Codfish.
Kumajiro Wakana—Tokyo. Canned Sardines.
Sukenorī Hoshino—Tokyo. Canned Crabs.
Yushutsu Shokuhin Kabushiki Kaisha—Tokyo. Canned Salmon.
Shukichi Fujiura—Tokyo. Taro.
Tomisaburo Hamaguchi—Kyoto. Canned Goods.
Takasu Kanzume Goshikaisha—Hiroshima. Canned Lobster.
Hiroshima Chikusan Kabushiki Kaisha—Hiroshima. Canned Meats, etc.
Mantaro Asaya—Yehime. Kamaboko.
Kosan Kabushiki Kaisha—Fukuoka. Cooked Crab.
Yetsujiro Teramoto—Kumamoto. Canned Lobster.

Usui Gomeikaisha—Hokkaido. Beans.
Shozo Izumi—Hokkaido. Canned Crab & Lobster.
Tsutsumi Shokai—Hokkaido. Canned Crab & Lobster.
Fujino Kanzumesho—Hokkaido. Canned Crab & Lobster.
Hokubei Boyeki Kabushiki Kaisha—San Francisco. Canned Crab.
Kichigoro Akiyama—Tokyo. Gold Fishes. Pal. Hort., Av. M.
Yukichi Onuma—Yebasaki. Gold Fishes. Pal. Hort., Av. M.
Yamanashi Kajitsu Bussan Dogyo Kumiai—Yamanashi. Dried Persimmon.

GROUP 127.

Goshikaisha Suzuki Shoten—Kanagawa. Ajinomoto.
Keiji Hamaguchi—Chiba. Shoyu.
Junhiro Iwasaki—Chiba. Shoyu.
Hichizaemon Mogi—Chiba. Shoyu.
Fusagoro Mogi—Chiba. Shoyu.
Sahelji Mogi—Chiba. Shoyu.
Hyozaeon Takanashi—Chiba. Shoyu.
Hichiroyemon Mogi—Chiba. Shoyu.
Chosai Shoyu Goshikaisha—Chiba. Shoyu.
Sanaokichi Aya—Kagawa. Shoyu.
Marukin Shoyu Kabushiki Kaisha—Kagawa. Shoyu.
Sojuro Yagi—Kagawa. Shoyu.
Yasuda Shoyu Kabushiki Kaisha—Kagawa. Shoyu.
Shimizu Shoyu Kabushiki Kaisha—Kagawa. Shoyu.
Fudeshiro Takahashi—Kagawa. Shoyu.
Shima Shoyu Seizo Kabushiki Kaisha—Kagawa. Shoyu.
Chujiro Kinoshita—Kagawa. Shoyu.
Akishiro Miyamoto—Kagawa. Shoyu.
Shinpei Sano—Kagawa. Shoyu.
Mojuro Otsuka—Hyogo. Shoyu.
Taminosuke Uyeda—Hyogo. Shoyu.
Shokichi Nishio—Hyogo. Shoyu.
Kyutaro Tsubota—Hyogo. Shoyu.
Mikigami Kaisha—Hyogo. Shoyu.
Nippon Maru Ton Shoyu Kabushiki Kaisha—Hyogo. Shoyu.
Tsubota Shoyu Gomeikaisha—Hyogo. Shoyu.
Maruo Shoyu Gomeikaisha—Hyogo. Shoyu.
Asai Shoyu Gomeikaisha—Hyogo. Shoyu.
Marunishi Shoyu Gomeikaisha—Hyogo. Shoyu.
Yakuzoro Okabe—Osaka. Shoyu.
Yahelji Matsuya—Osaka. Shoyu.
Shinzaburo Masuda—Osaka. Shoyu.
Izumi Shoyu Kabushiki Kaisha—Osaka. Shoyu.
Matasaburo Kawamori—Osaka. Shoyu.
Gomeikaisha Amekaze Shoten—Osaka. Shoyu.
Connosuke Togawa—Osaka. Shoyu.
Nobuo Shitabani—Osaka. Shoyu.
Kakufuro Ikushima—Osaka. Shoyu.
Jihel Kida—Osaka. Shoyu.
Kinbei Ehara—Osaka. Shoyu.
Hikishiro Okubo—Kumamoto. Shoyu.
Gichi Kato—Kumamoto. Shoyu.
Itaro Katsuyama—Kumamoto. Shoyu.
Ichibei Noda—Kumamoto. Shoyu.
T-kichi Yoshimura—Kumamoto. Shoyu.
Hidetaro Ichihara—Kumamoto. Shoyu.
Jubei Watanabe—Kumamoto. Shoyu.
Kenda So—Kumamoto. Shoyu.
Sanzo Takagi—Kumamoto. Shoyu.
Masakichi Furusho—Kumamoto. Shoyu.
Masakichi Akaboshi—Kumamoto. Shoyu.
Seitaro Nishio—Kumamoto. Shoyu.
Taro Takata—Kumamoto. Shoyu.
Hikojiro Uyeda—Kumamoto. Shoyu.
Tsunehashi Tamashiro—Kumamoto. Shoyu.
Shunnosuke Sato—Miyē. Shoyu.
Seitaro Kadowaki—Miyē. Shoyu.
Seisaku Uchida—Miyē. Shoyu.
Kozayemon Ito—Miyē. Shoyu.
Bunsuke Kuki—Miyē. Shoyu.

Yokkaichi-Shoyu Juzo Goshikaisha — Miye. Shoyu.

Rihei Shimotsu—Miye. Shoyu.

Matayemon Isaka—Miye. Shoyu.

Sakuyemon Takai—Miye. Shoyu.

Senyemon Morimoto—Miye. Shoyu.

Yamahachi Gomeikaisha—Miye. Shoyu.

Seisuke Hashimoto—Miye. Shoyu.

Yamanaka-Shoyu Goshikaisha—Miye. Shoyu.

Shinji Kitamura—Miye. Shoyu.

Ryokichi Ito—Miye. Shoyu.

Shoyemon Hattori—Miye. Shoyu.

Tsunejiro Ito—Miye. Shoyu.

Yasaburo Hamanaka—Miye. Shoyu.

Suyejiro Kadowaki—Miye. Shoyu.

Shinsuke Yoshizawa—Miye. Shoyu.

Seibei Kawamura—Miye. Shoyu.

Keijiro Kondo—Okayama. Shoyu.

Jotaro Takimoto—Okayama. Shoyu.

Ibachiro Kuyama—Okayama. Shoyu.

Tomomatsu Ono—Okayama. Shoyu.

Kurajiro Kuyama—Okayama. Shoyu.

Yontaro Oka—Okayama. Shoyu.

Kaneichi - Shoyu Gomeikaisha — Okayama. Shoyu.

Yaroku A-ki—Aichi. Shoyu.

Marukoyo Goshikaisha—Aichi. Shoyu.

Saburo Ogi—Aichi. Shoyu.

Morita Goshikaisha—Aichi. Shoyu.

Kikkotomi-Shoyu Kabishiki Kaisha—Aichi. Shoyu.

Ito Goshikaisha—Aichi. Shoyu.

Shizuoka Shoyu Dogyo Kumiai—Shizuoka. Shoyu.

Mito-Shoyu Jozo-Kumiai—Ebaragi. Shoyu.

Soyemon Murata—Ebaragi. Shoyu.

Ninbei Nishio—Ebaragi. Shoyu.

Soyemon Murata—Ebaragi. Shoyu.

Hikobei Yamanaka—Ebaragi. Shoyu.

Takichi Sugaya—Ebaragi. Shoyu.

Yahai Mural—Ebaragi. Shoyu.

Teikichi Tateno—Ebaragi. Shoyu.

Hichizayemon Yoshida—Ebaragi. Shoyu.

Masanosuke Sugizawa—Ebaragi. Shoyu.

Teijiro Ohashi—Ebaragi. Shoyu.

Gomeikaisha Shibanauma Shoten — Ebaragi. Shoyu.

Nagai Shoyu Gomeikaisha—Ebaragi. Shoyu.

Uhei Hanari—Ebaragi. Shoyu.

Tabei Iyeda—Ebaragi. Shoyu.

Jobishi Gomeikaisha—Ebaragi. Shoyu.

Chagyō Kumiai Chuō Kaigisho—Tokyo. Tea.

Taih'ki Chasho Koaki—Taihoku. Tea.

Chin Cho Shun—Taihoku. Tea.

Kaku Kan Sen—Taihoku. Tea.

Chin Cho Byo—Taihoku. Tea.

Ko Sei Hyo—Taihoku. Tea.

Chin Zui Ho—Taihoku. Tea.

Bi Man Kyo—Taihoku. Tea.

Ko Sei Chin—Taihoku. Tea.

Ko Ho Shin—Taihoku. Tea.

Chin Zui Sei—Taihoku. Tea.

Chin Zui Bei—Taihoku. Tea.

So Eyo To—Taihoku. Tea.

Kaku Ho Gen—Taihoku. Tea.

Ooba Yei Sei—Taihoku. Tea.

Cho Gyoku Rin—Taihoku. Tea.

Ryu Hin Shin—Taihoku. Tea.

Rin Gyoku Sen—Taihoku. Tea.

Bai Yei Zai—Taihoku. Tea.

Sho Sei Yen—Taihoku. Tea.

Nippon Taiwan-Cha Kabushiki Kaisha—Toyon. Tea.

Nosawa-Gumi—Kanagawa. Pepper, Dried Ginger.

Taohoki Setto Kabushiki Kaisha—Taihoku. Sugar.

Rin Hon Gen Setto Kabushiki Kaisha—Tai-chu. Sugar.

Yensuiwan Setto Takushoki Kabushiki Kaisha—Kagi. Sugar.

Dainippon Setto Kabushiki Kaisha—Kagi. Sugar.

Taiwan Setto Kabushikin Kaisha—Tainan. Sugar and Alcohol.

Taiwan Setto Bengo Kai—Tokyo. Crude Sugar.

Shizuokaken Shogy Hechima, Kosho Rakkasei Dogyo Kumiai—Shizuoka. Pepper, Ginger.

Zensuke Yagi—Chiba. Mirin.

Zenbei Baba—Chiba. Mirin.

Kohel Okada—Chiba. Mirin.

Sanzayemon Akimoto—Chiba. Mirin.

Monjiro Horikiri—Chiba. Mirin.

Hachijoji Ishikawa—Aichi. Mirin.

Tatsuji Iwatsuki—Aichi. Mirin.

Kangoro Suzuki—Aichi. Mirin.

Momotaro Oiwa—Aichi. Mirin.

Senju Nagai—Aichi. Mirin.

Kohichi Kazeoka—Aichi. Mirin.

Heizayemon Yamada—Aichi. Mirin.

Yomo Gomeikaisha—Kyoto. Mirin.

Sutejiro Kimura—Kyoto. Mirin.

GROUP 128

Kabushikikaisha Nunobiki Kosen Sho—Hyogo. Mineral Water.

The Clifford Wilkinson Tansan Mineral Water Co., Ltd.—Hyogo. Mineral Water.

Takarazuka Kosen Goshikaisha—Hyogo. Mineral Water.

Isaburo Nakamura—Hyogo. Mineral Water.

The Hirano Mineral Water Co.—Hyogo. Mineral Water.

Kojiro Uyeno—Hyogo. Mineral Water.

Kokoku Kosen Kabushiki Kaisha—Osaka. Mineral Water.

Misumi Kosen Shokai—Kumamoto. Mineral Water.

GROUP 130

Zensuke Yagi—Chiba. Mirin.

Zenbei Baba—Chiba. Mirin.

Kohel Okada—Chiba. Mirin.

Sanzayemon Akimoto—Chiba. Mirin.

Monjiro Horikiri—Chiba. Mirin.

Hachijoji Ishikawa—Aichi. Mirin.

Tatsuji Iwatsuki—Aichi. Mirin.

Kangoro Suzuki—Aichi. Mirin.

Momotaro Oiwa—Aichi. Mirin.

Senju Nagai—Aichi. Mirin.

Kohichi Kazeoka—Aichi. Mirin.

Heizayemon Yamada—Aichi. Mirin.

Yomo Gomeikaisha—Kyoto. Mirin.

Sutejiro Kimura—Kyoto. Mirin.

Yei-gashima Shuzo Kabushiki Kaisha—Hyogo. Sake.

Kvutaro Washio—Hyogo. Sake.

Runjiro Osabe—Hyogo. Sake.

Yetsuzo Tatsuma—Hyogo. Sake.

Tazayemon Yamamura—Hyogo. Sake.

Ishizaki Goshi Kaisha—Hyogo. Sake.

Sensuke Isumi—Hyogo. Sake.

Kano Gomeikaisha—Hyogo. Sake.

Gomeikaisha Honkano Shoten—Hyogo. Sake.

Saburobei Otsuka—Osaka. Sake.

Shibataji Gomeikaisha—Osaka. Sake.

Sarji Terii—Osaka. Sake.

Genjiro Kaizu—Osaka. Sake.

Taku Gomeikaisha—Osaka. Sake.

Wasaburo Otsuka—Osaka. Sake.

Marunishi Goshikaisha—Aichi. Sake.

Magokichi Sato—Aichi. Sake.

Hirose Gomeikaisha—Aichi. Sake.

Shohai Sugimoto—Aichi. Sake.

Yakichi Inaba—Aichi. Sake.

Hichirobei Uchida—Aichi. Sake.

Ota Goshikaisha—Aichi. Sake.

Ita Goshikaisha—Aichi. Sake.

Shitaro Mase—Aichi. Sake.

Tanaka Shuzo Goshikaisha—Aichi. Sake.

Morita Goshikaisha—Aichi. Sake.

Tsunekichi Okura—Kyoto. Sake.

Kvutaro Horino—Kyoto. Sake.

Sakugoro Kobayashi—Fukuoka. Sake.

Isaburo Tomiyasu—Fukuoka. Sake.

Gomeikaisha Seirik Shoten—Fukuoka. Sake.

Sudo Gomeikaisha—Fukuoka. Sake.

Gomeikaisha Seiriki Shoten—Fukuoka. Sake.
 Goshikaisha Ninomiya Meishujosoten—Fukuoka. Sake.
 Shigeyuki Tomiyasu—Fukuoka. Sake.
 Goshikaisha Kamachi-Meishu Joso Sho—Fukuoka. Sake.
 Eyuhei Takeda—Fukuoka. Sake.
 Taiwan Seito Kabushiki Kaisha — Tianshan. Sugar and Alcohol.

GROUP 131

Dai Nippon Beer Kabushikikaisha—Tokyo. Beer, Citron.
 Teikoku Beer Kabushiki Kaisha—Fukuoka. Beer.
 Jozo Shikenjo—Photographs and samples of brewed drinks.

NETHERLANDS

Location: Av. B, bet. 1st and 2nd Sts.

GROUP 117

De Nederlandsche Sigarenfabriek "de Huijkar," Fa Hamers & Co., Oisterwyk. Cigars. AD Following groups under this head.

GROUP 125

de Biscuitfabriek "de Zwaluw" firma W. C. van der Kaay, Utrecht. Biscuits.

GROUP 127

Betke's Hollandsche Cacaofabriek, Amsterdam. Cocoa.
 de Firma B. van der Sluys, Rotterdam. Spices, oils and groceries.

GROUP 130

de Firma Gebr. Cats, Rotterdam. Bitters and liquors.

PORTUGAL

Location: 4th St., bet. Aves. A and B.

The complete list of exhibits from Portugal in the Department of Agriculture will appear in revised edition of the catalogue.

SPAIN

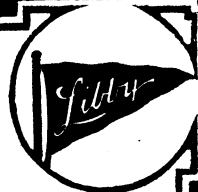
Location: Ave. B, bet. 1st and 2nd Sts.

The complete list of exhibits from Spain in the Department of Agriculture will appear in revised edition of the Catalogue.

CHINA

Location: Aves. B & C, bet. 4th & 5th Sts.

The complete list of exhibits from China in the Department of Agriculture will appear in revised edition of the Catalogue.



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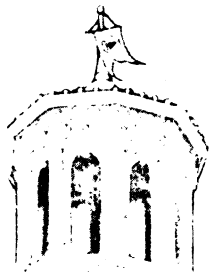
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See how Libby's Food Products are put up the same day as gathered, right in the fields where they are produced, in the locality best suited for growing each particular product.

You will realize why Libby McNeill & Libby are known as the "World's Greatest Caterers" and why you should insist on Libby's — "*The Brand You Can Trust*"



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Libby's
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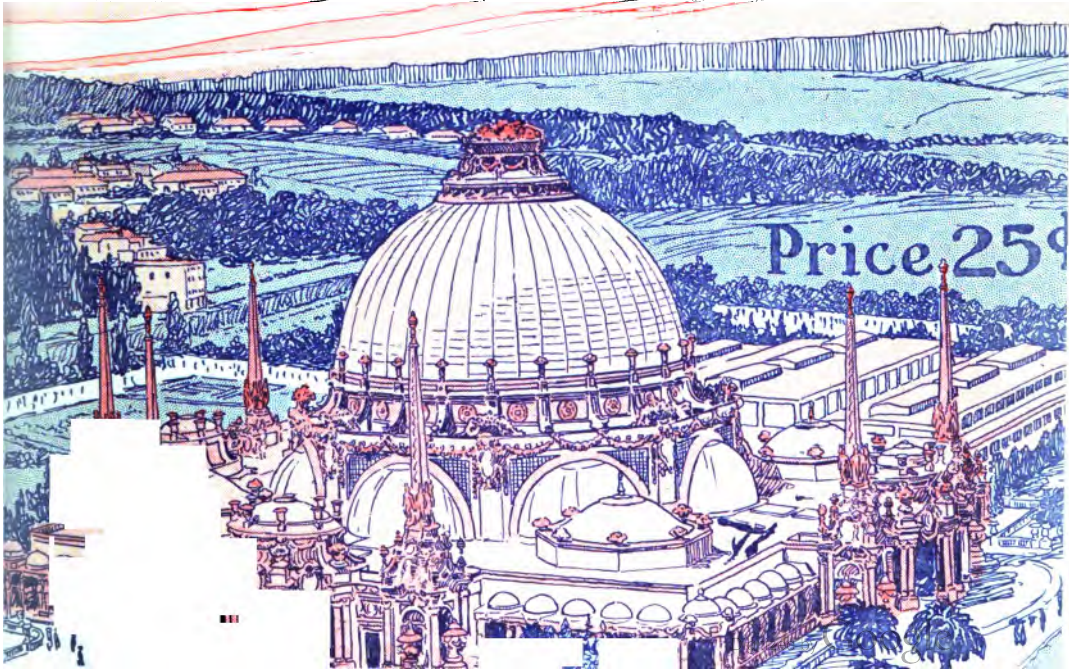


Libby, McNeill & Libby
Chicago

HORTICULTURE AND FLORICULTURE

Official Catalogue of Exhibitors

PANAMA - PACIFIC
INTERNATIONAL EXPOSITION
SAN FRANCISCO 1915

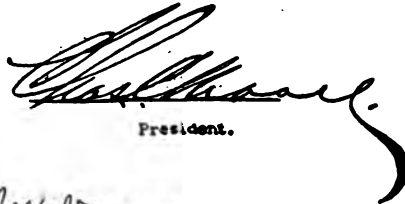


PANAMA-PACIFIC INTERNATIONAL EXPOSITION
SAN FRANCISCO
OFFICE OF THE PRESIDENT

July 10 1914.

To Whom It May Concern:-

This is to certify that the Wahlgreen Company, of which Mr. G. A. Wahlgreen is the President and Manager, has been given a contract by the Panama-Pacific International Exposition Company authorising and requiring the Wahlgreen Company to publish the official daily programme, official catalogue, official hand-book, official guide and official maps of the Exposition.


President.




Secretary.

Copyright
PANAMA-PACIFIC INTERNATIONAL EXPOSITION
San Francisco, 1915

Official Catalogue of Exhibitors

Panama-Pacific International Exposition
San Francisco, California, 1915

CHAS. C. MOORE
President

Director-in-Chief
FREDERICK J. V. SKIFF

Division of Exhibits

ASHER CARTER BAKER, Director

Department **L**

MINES AND METALLURGY

CHAS. E. BUNWELD, Chief

Preliminary Edition

Published for the Division of Exhibits by
The Wahlgreen Company, Official Publishers
San Francisco, 1915

PREFACE

By Asher Carter Baker, Director of Exhibits

A modern, universal exposition is an encyclopedia of man's words and works. It is a collection of the achievements and productivity of man for examination by the International Jury of Awards, and constitutes a compact, classified, indexed compendium of man's activity in all phases, extending to the most material as well as to the most refined products. It is estimated that a million objects are exposed in the various displays installed within the palaces, in foreign, state and special pavilions. To properly classify, group and arrange alphabetically all the exhibits of an exposition of such international scope, is a task of such magnitude as to make it impossible to provide a complete catalogue of these exhibits on opening day of the Exposition.

This edition of the official catalogue is therefore presented preliminary to the revised and complete catalogue which will be issued within a few weeks, and to the preparation of which, in realization of its extraordinary value as a document of general and commercial reference, special care is being given.

The present volume, however, capably serves the purpose for which it is designed, as an early index of the infinite variety of interesting exhibits which are the concrete evidences of the industrial, educational and artistic advancement of the world.

Acknowledgment is hereby offered of the excellent co-operation received in the compilation of this catalogue from the Commissioners-General of participating nations, officers of State Commissions, individual exhibitors, and more particularly, the various officers of the Division of Exhibits, and the Official Catalogue Company, publishers of the catalogue.



PALACE OF MINES

MINES AND METALLURGY

Official Catalogue Department L

CLASSIFICATION OF EXHIBITS

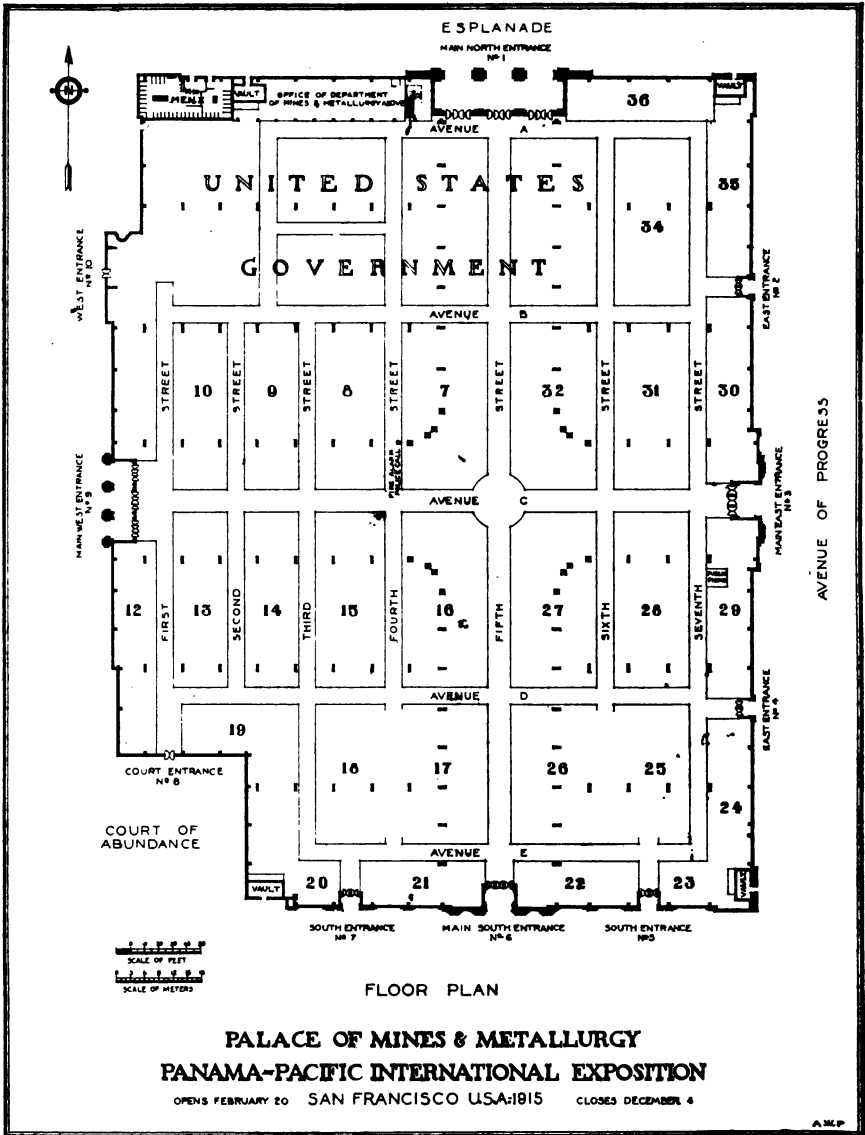
Working of Mines, Ore Beds and Stone Quarries

Minerals and Stones, and Their Utilization

Mine, Metallurgical and Oil Models, Maps, Photographs

Metallurgy

Literature of Mining and Metallurgy



INTRODUCTION

Department of Mines and Metallurgy

BY

CHARLES E. van BARNEVALD

Chief of Department.

The Palace of Mines and Metallurgy is situated at the northeast corner of the main group of Exhibit Palaces, fronting the Marina and flanked by the Avenue of Progress. Its southwest corner adjoins the beautiful Court of Abundance, an architectural gem symbolizing the successive geologic stages of the world's development, the dynamic agencies of earth, air, water and fire. The thought of evolution is strikingly brought out in the embellishment of this building by the spontaneity with which all architectural lines flow into sculptural ornamentation. The Court is wonderfully enriched by the magnificent Brangwyn mural paintings. One of these panels on the southwestern corner of the Palace depicts a group of mediaeval artisans working metals with fire. The Palace is rectangular in form and covers an area of roughly six acres, surmounted by a dome 165 feet in height.

The Department of Mines and Metallurgy deals with the natural mineral resources (metallic, non-metallic and fuels) of the world; their exploration and exploitation; their conversion into metal; their manufacture into structural forms and into raw materials for the various industries.

The object of the Mines and Metallurgical exhibit is two fold. First, to draw attention to the natural mineral resources of each country, state and community so that the public may learn of the mode of occurrence of the minerals and metals of commerce and of their distribution; of the stage of development of the various countries and districts; of present and possible future sources of supply and consumption; of general market and trade conditions in the many industries which are based on the utilization of mineral resources. Second, to educate the public in a general way regarding the details of the numerous subdivisions of this great basic industry, both at home and abroad, in the hope that the hundreds of thousands who will visit the Palace will tarry long enough to grasp the tremendous importance of this industry in the development and settlement not only of the United States but of the World.

The aim of this Department has been to illustrate every mineral of economic importance, not merely by mineralogical and geological specimens, but by complete industrial exhibits which begin with the undeveloped mineral resource, end with the article sold to the retail trade of the country and show, insofar as possible, the intermediate processes of mining, reduction and manufacture.

Especial attention has been given to petroleum and coal, to copper, to lead and zinc, to the precious metals, to the gems and semi-precious stones. The iron and steel industry is shown by the most comprehensive and complete exhibit ever assembled. The rarer minerals and processes for their reduction have received due attention, particularly the radio-active ores.

A co-operative metallurgical exhibit has been arranged where standard metallurgical methods will be illustrated on a working scale. An open Metallurgical Forum will be conducted by the United States Bureau of Mines. It is expected that this will prove to be a rendezvous for technical men from all parts of the world and that many important problems will be investigated during the life of the Exposition.

Mining methods are illustrated by a novel and most instructive exhibit beneath the floor of the Palace in THE DEMONSTRATION MINE. The leading metal mining companies and coal producers of the United States, and the various manufacturers of machinery and equipment, have joined in a comprehensive exhibit illustrating mine practice. Iron mining on the Iron Ranges of Lake Superior, copper mining in Arizona and Montana, lead-silver mining in Idaho, gold mining in South Dakota; coal mining on the Pacific Coast, in Wyoming, in Pennsylvania and in West Virginia are shown by full size stopes and rooms, together with all the incidental surface and underground equipment—a truly educational exhibit. Other types of mining are fully illustrated in the underground motion picture theatre. Daily demonstrations of mine rescue work will be given.

In short, the exhibits in the Palace of Mines and Metallurgy are truly representative of the important industry which this Department is designed to serve.

HOW TO LOCATE AN EXHIBIT

The Palace of Mines and Metallurgy is laid out in blocks, which are consecutively numbered from 1 to 36, inclusive, as shown on the floor plan. The aisles are designated as streets (First to Seventh), running north to south, and as avenues (A to E), from east to west. To locate an exhibitor refer to the names, alphabetically arranged under the exhibit group to which each belongs in the official classification, and note the aisle location following each name. Street and Avenue signs are erected at their intersection on the corners of all blocks.

The United States Government exhibits, including Bureau of Mines, Geological Survey, United States Mint and United States Postoffice, will be found in the northwest corner of the building.

The Demonstration Mine and the Co-operative Metallurgical Exhibit are situated near the main north entrance on Avenue B and Fifth Street.

| | |
|----------------------------------|--------------|
| Fine Arts Palace..... | Fn. A. Pal. |
| Education Palace..... | Ed. Pal. |
| Liberal Arts Palace..... | Lb. A. Pal. |
| Manufactures Palace..... | Mfr. Pal. |
| Varied Industries Palace..... | V. I. Pal. |
| Machinery Palace..... | Mch. Pal. |
| Transportation Palace..... | Trns. Pal. |
| Agriculture Palace..... | Agr. Pal. |
| Food Products Palace..... | Fd. Pr. Pal. |
| Live Stock Palace..... | Lv. St. Pal. |
| Horticulture Palace..... | Hor. Pal. |
| Mines and Metallurgy Palace..... | Min. Pal. |

MINES AND METALLURGY

Official Classification of Exhibits

GROUP 152

WORKING OF MINES, ORE BEDS AND STONE QUARRIES

(Equipment and Processes.)

- Class 743. Equipment and methods of geological surveys, mining bureaus, societies and other institutions for the promotion of mining. Instruments and equipment for surface and underground surveys and examinations in connection with mining.
- Class 744. Equipment and methods of prospecting for mineral veins and deposits, for building stones, coal, petroleum, natural gas, artesian waters, etc.
- Class 745. Equipment and methods for sampling, assaying, analyzing or testing ores, metals and other minerals and mineral products.
- Class 746. Equipment and methods for drilling, cutting or otherwise breaking down rock, ore, or other mineral in quarries, open cuts or mines; sinking shafts, opening galleries, drifts or tunnels.
- Class 747. Explosives and methods for storing, handling, thawing, placing and firing the same, in mines, quarries and deep wells; different classes of explosives, and methods and equipment for testing the same.
- Class 748. Equipment for, and methods of mining coal and other minerals, and of timbering or otherwise securing mine shafts, drifts, rooms, stopes, etc., or tunnels, and of preventing surface subsidence over mines.
- Class 749. Electric, compressed air, or other motors, for use in opening and operating mines and quarries, and for operating equipment for handling ores and other minerals. (See Classes 459 and 464.)
- Class 750. Equipment and methods for the underground handling and transportation of ore, coal, etc., including mine cars, haulage engines and rope, and locomotives using compressed air, electricity, gasoline, alcohol, etc. (See Class 460.)
- Class 751. Machinery and appliances for draining mines and quarries. (See Class 462.)
- Class 752. Equipment for and methods of ventilating mines.
- Class 753. Equipment for and methods of lighting mines: oils, acetylene, electricity; safety lamps, testing and cleaning lamps; lamps and other appliances for testing mine gases.
- Class 754. Equipment and methods for mine safety; safety appliances and methods, including signals, mine telephones, etc.; safety devices; methods of preventing dust explosions and other accidents; equipment and devices for fighting mine fires; mine laws, rules and regulations in behalf of safety in mines and quarries.
- Class 755. Equipment and methods for mine rescue work, apparatus for artificial respiration, and other appliances; equipment and methods of resuscitating persons overcome by electric shock or by mine gases; equipment and methods in first aid to the injured in mines; equipment and methods in mine sanitation.
- Class 756. Equipment and methods for handling and weighing mine products at the mine, and for their above-surface transportation; tipples, screens, picking tables, etc.; railways, tramways, inclined planes, belt conveyors, loose cables, aerial cables, wire rope for mining purposes, trolleys, etc.; appliances for loading and unloading wagons, boats, cars, etc.
- Class 757. Machinery, appliances and methods for working gases or minerals in liquid form or in solution, such as petroleum, natural gas, salt, sulphur, etc.; appliances and methods for capping and plugging gas and oil wells; pipe lines, storage facilities, etc.
- Class 758. Equipment and methods used in quarrying stone and other materials requiring similar operations.
- Class 759. Equipment and methods used in excavation, in open-pit and placer mining; steam shovels, dredges, and hydraulic mining equipment; special methods of storing and conveying water, etc. (See Classes 199 and 466.)

GROUP 153

MINERALS AND STONES, AND THEIR UTILIZATION

- Class 760. Systematic collections in geology, general mineralogy, crystallography and paleontology. Collections illustrating the structure, modes of occurrence and origin of ore deposits, and other mineral deposits, with maps showing their distribution.
- Class 761. Building materials: ornamental and building stones, rough hewn, sawed or polished; stones for highway construction and other purposes.
- Class 762. Mechanical appliances and processes used in cutting, sawing, shaping and polishing marble, granite, slate, and other building stone.
- Class 763. Equipment and processes for crushing, separating, washing or drying rocks, clays and other minerals.

- Class 764. Building materials: rocks which produce lime or cement. Processes and appliances used in the preparation and utilization of lime, cement and plaster; their products and uses; artificial stone; reinforced concrete.
- Group 765. Building materials: clays, fuller's earth, kaolin, feldspar, silica, sand and rock, quartz and other substances used in the manufacture of earthenware and of building materials such as brick, paving brick, paving and roof tiles, pipe, terra cotta, glass, etc.; processes of utilization with specimens of their products; brick and tile making machinery. Prepared roofings using mineral base other than asphalt and bitumen.
- Class 766. Grindstones, whetstones, pumice stones; other natural and artificial mineral abrasives, including carborundum, alundum, etc.; processes of their manufacture and their use.
- Class 767. Refractory rocks, fire clays and sands. Moulding sands.
- Class 768. Mica, asbestos, meerscham, fluorspar, graphite (plumbago), gypsum and other non-metallic minerals; processes of utilization with their products.
- Class 769. Gems and precious stones; lapidary work; artificial gem materials and their preparation.
- Class 770. Common salt, nitrates, sulphates, borates, and other natural salts; methods of purification with their products.
- Class 771. Mineral waters; artesian water conditions; utilization of water.
- Class 772. Sulphur and pyrite; process of utilization, with their products.
- Class 773. Mineral and vegetable paints; dye stuffs, pigments, varnishes and fillers; processes of preparation and their products; painting and glazing.
- Class 774. Mineral fertilizers; natural and artificial sources of nitrogen; potash and phosphates; processes of preparation, with their products.
- Class 775. Asphalt and asphaltic rocks; mineral bitumen and wax; amber, jet, etc.; processes for obtaining, treating, refining, and utilizing, and their products as used in building materials, roofing and paving.
- Class 776. Mineral fuels and luminants; peat, lignite, bituminous coal, anthracite; coal dust and compressed coal; petroleum and its products; mineral gases. Equipment for crushing, separating, and washing coal. Equipment and processes for briquetting or otherwise compressing fuels; for preparing coke and by-products; for storing, refining, and handling petroleum and natural gas products.
- Class 777. Metallic ores of every kind, and products. Native metals. Radium.
- Class 778. Artificial mineral products, their preparation and use.

GROUP 154

MINE, METALLURGICAL AND OIL MODELS, MAPS, PHOTOGRAPHS

- Class 779. Maps, charts, photographs, transparencies, and models illustrating geologic and topographical features, their relation to mineral deposits; the structure and mode of occurrence of mineral deposits. Mine models, working plans of mines and of mine transportation systems. Models of metallurgical plants. Maps, photographs, lantern slides, moving pictures, etc., of mining and metallurgical operations, plants, camps, etc.

GROUP 155

METALLURGY

- Class 780. Equipment, methods and processes used, and products obtained; (a) in the handling of ores, such as hand sorting, conveying, elevating, weighing, sampling, etc.; (b) in the preparation of ores, such as breaking, crushing, pulverizing, grinding, washing, drying, etc.; (c) in the concentration, separation and classification of ores, such as screens and trommels, jigs, sand and slime separators, slime settling and thickening devices, dry vanners, etc.; water clarifiers, flotation processes with the aid of oil, gas, etc.; magnetic and electrostatic concentration, decrepitation, briquetting, sintering, etc. (See also Class 460.)
- Class 781. Equipment, materials, processes, products and by-products concerned in the treatment of the ores of iron for pig iron; equipment for smelting iron ores; blast furnaces and accessories; furnace construction; appliances used in operating furnaces and in handling and utilizing furnace products. Equipment for measuring furnace temperatures. Equipment and methods in the generation and use of gases, the preparation and use of liquid and solid fuels, generation, drying and heating of blast; handling and use of slags; recovery, use of and injuries from dust, fumes, etc. Varieties of pig iron.
- Class 782. Equipment, methods and products of the manufacture and use of refractory materials for metallurgical purposes (bricks, blocks, crucibles, retorts, etc.)
- Class 783. Equipment, materials, processes and products concerned in the manufacture of Bessemer, open hearth, crucible and electrically-refined steel; ingots, billets, blooms, slabs, steel castings and other semi-finished material; re-heating furnaces, hammers, presses and rolls used in shaping these. Various processes of manufacturing iron or steel directly from the ores, such as electric smelting and refining, etc.
- Class 784. Equipment, materials, processes and products concerned in the manufacture of special and alloy steels, including the preparation of manganese, chromium, nickel, vanadium, tungsten and other metals used therein; copper steels.
- Class 785. Equipment, materials, processes and products concerned in producing and refining wrought iron.

- Class 786. Equipment, methods, processes and products in the manufacture of iron and steel in finished commercial forms, such as merchant bar, hoop iron, band iron, bars for wire drawing, iron and steel wire; wire rope, wire mesh fabric and reinforcing bars; iron and steel of standard or special sections, armor plates, sheet iron and sheet steel for commercial building, metallurgical and other purposes; fabricated steel for construction purposes, such as columns, beams and girders for bridges, transmission towers, buildings, etc.; rails, axles, tires, wheels, large forgings, gun barrels, projectiles, ordnance equipment, other than naval, and its production. Testing. Illustrative material.
- Class 787. Equipment, processes and products in the manufacture of welded and seamless metal pipes and tubes, other than cast iron pipes.
- Class 788. Metal plates and screens, flanged, stamped, cut, decorated and perforated, and their production. Production and use in metallurgical operations of wire cloth and screens.
- Class 789. General foundry equipment. Foundry processes and products.
- Class 790. Equipment, materials, and processes used in the metallurgy of copper, and products obtained. Treatment of ores, production of copper and copper alloys, bronze and brass, in ingots, bars, sheets, wire and other forms. Electrolytic and other processes used in refining copper, and in separating the accompanying gold, silver, and other substances.
- Class 791. Equipment, materials and processes used in the metallurgy of gold and silver, including amalgamation, hydrometallurgy, cyanidation, etc., and products obtained. Treatment of the ores: retorting amalgam, refining precipitates and electrolytic slimes; parting of gold and silver; melting, refining, stamping and shipping bullion; mint processes and products. Gold and silver in bars and other forms.
- Class 792. Equipment, materials, and processes used in the metallurgy of lead, and products obtained; treatment of ores, including blast roasting, sintering, briquetting, smelting, etc.; refining of lead bullion and the separation of the associated gold and silver. Production of lead in commercial forms, pigs, bars, sheets, pipes, shot and test lead; lead alloys; white lead and other lead pigments.
- Class 793. Equipment, materials, and processes used in the metallurgy of zinc, cadmium and mercury, and their alloys, zinc spelter, metallic zinc in bars and sheets, and zinc white; treatment of galvanizer's dross and zinc skimmings.
- Class 794. Equipment, materials, and processes used in the metallurgy of aluminum, sodium, calcium, magnesium, and their alloys, and other metals or alloys produced or refined by electro-metallurgical processes and not otherwise provided for.
- Class 795. Equipment, materials, and processes used in the metallurgy of arsenic, antimony, tin, nickel, platinum and other metals not otherwise provided for, and their alloys, such as German silver and monel metal.
- Class 796. Equipment for and processes of recovering and treating gold and silver and other metal waste in the working of these metals, and dust from refiners of precious metals. Appliances, processes, and products for exact rolling, beating and grinding of gold, silver, aluminum, zinc, lead, tin, and other metals and alloys. Apparatus and processes for working platinum and other rare metals.
- Class 797. Equipment, processes and products of electricity applied to the production and refining of metals and other mineral products not otherwise classified; electroplating; electric and other methods of welding; electrotyping; and other applications of electricity in metallurgy not otherwise provided for.
- Class 798. Apparatus and processes (other than electro-metallurgical) for coating metals with more precious, more malleable or more durable metals; case hardening; malleablizing; galvanizing or sherardizing of metals, leading or nickel plating; tin plates (bright, dull, mottled, ornamental, printed) and tin plating. Products.
- Class 799. Appliances and processes for enameling metallic objects, and products, and other metal coating or protection not otherwise provided for. Products.

GROUP 156

LITERATURE OF MINING AND METALLURGY

- Class 800. Statistics and publications relative to geology, mineralogy, paleontology, topography, quarrying, mining, mine accidents, metallurgy, the manipulation of mineral products and the development of water resources.

GROUP 152

WORKING OF MINES, ORE BEDS, STONE
QUARRIES

- Ackroyd & Best, Ltd., Pittsburgh, Pa. Safety Lamps. The Mine.
- American Blower Co., Detroit, Mich. Sirroca mine fan. The Mine.
- American Mine Door Co., Canton, Ohio. Mine door. The Mine.
- American Well Works, Aurora, Ill. Deep well pumps. Mch. Pal., 1st St., Avs. G & G2.
- Baldwin Locomotive Works, Philadelphia, Pa. Baldwin-Westinghouse electric mine locomotive—bar steel frame with trolley and gathering reel. Baldwin-Westinghouse storage battery locomotive with bar steel frame. The Mine.
- Byron Jackson Iron Works, San Francisco, Cal. Pump. The Mine.
- Coast Mfg. and Supply Co., Livermore, Cal. The Mine.
- Co-operative Metallurgical Exhibit, U. S. Bureau of Mines and Following Companies. 5th St. & Av. A:
Ainsworth & Sons, Wm. G., Denver, Colo. Assay and analytical balances.
Braun Corporation, Los Angeles, Cal. Assay and chemical goods.
Braun-Knecht-Heiman Co., San Francisco, Cal. Chemical goods.
Keeler Mfg. Co., Salt Lake City, Utah. Assay balance.
Tyler Co., W. S., Cleveland, O. Assay screens.
- Concordia Safety Lamp Co., Pittsburg, Pa. Mfr. Pal. and in The Mine. Electric safety lamps for mines.
- Consolidated Coal Co., The, Baltimore, Md. The Mine.
- Denver Engineering Works, Denver, Colo. The Mine.
- Denver Rock Drill Mfg. Co., Denver, Colo. The Mine. M. A. Petersen, Dist Mgr., 225 Rialto Bldg., San Francisco, Cal. Mining drills and accessories.
- Draeger Oxygen Apparatus Co., Pittsburg, Pa. Rescue apparatus. The Mine.
- Economy Engineering Co., Chicago, Ill. Mfrs. Mch. Pal., Av. H. bet. 3rd & 4th Sts. Warehouse equipment.
- Fairmont Mining Machinery Co., West Va. The Mine. "Fairmont" steel ties for mine tracks; portable electric mine pumps; rotary box car loader model; railroad car retarder model; coal mine equipment and supplies.
- Harron, Rickard & McCone, San Francisco, Cal. Cohl. Exh. drilling pumps. Mch. Pal., 4th & 5th Sts., Avs. G & H.
- Hayward, S. F. & Co., New York, N. Y. The Mine.
- Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo. The Mine. Leadville Drill Column Hoist.
- Hercules Powder Co., San Francisco, Cal. Explosives. Av. B & 7th St. Dynamite; all grades and strengths; blasting powders and blasting supplies; smokeless sporting powder; black sporting powder; earth augers; subsoiling bars; explosives for stump blasting; tree planting.
- Hockensmith Wheel & Mine Car Co., Penn. Station, Pa. The Mine.
- Homestake Mining Co., Lead, S. D. The Mine.
- Hendy Iron Works, Joshua, San Francisco, Cal. The Mine.
- Hughes Bros., Scranton, Pa. The Mine.
- Ingersoll Band Co., New York, N. Y. The Mine.
- Keystone Driller Co., Beaver Falls, Pa. Drilling machinery. Mch. Pal., 4th St., bet. Avs. F & G.
- Koehler Mfg. Co., Marlboro, Mass. Safety mine lamps. The Mine.
- Lehigh Coal & Nav. Co., Lansford, Pa. The Mine.
- Lucey Co., J. F., Pittsburg, Pa. Drilling machinery. Mch. Pal., 5th St. & Av. F.
- Luitweller Pumping Engine Co., Rochester, N. Y. Deep well pumps. Mch. Pal., 1st & 2nd Sts. & Av. E.
- Mine Safety Appliance Co., Pittsburg, Pa. The Mine.
- Missouri, State of. Prosp. drill. Drill hole Sects. in tubes and cases.
- National Lamp Works, Cleveland, O. The Mine.
- Pac. Portable Cons. Co., Inc., Los Angeles, Cal. Portable house in Oil Camp.
- Pacific Tank & Pipe Co., San Francisco, Cal. Clarifiers. 6th St., bet. Avs. A & B. Sand and slime settling tanks; sump, water, oil and gas tanks; tankage for separating gold and silver; cleaning and refining of ores; zinc shavings and sheets.
- Pyrene Mfg. Co., New York, N. Y. Fire extinguishers. The Mine.
- Rosseler & Haaslach Chemical Co., The, New York, N. Y. Cyanide. 7th St., bet. Avs. A & B.
- Siebe, Gorman & Co., Ltd., Chicago, Ill. The Mine.
- Simonds Machinery Co., San Francisco, Cal. Deep well pumps. Mch. Pal., 1st & 2nd Sts. & Av. E.
- Simmonds Co., John, New York, N. Y. The Mine.
- Standard Gas Engine Co., San Francisco, Cal. Mine hoists. Mch. Pal., 1st & 2nd Sts., Avs. E & F.
- Star Drilling Machine Co., Akron, O. Drilling machinery. Mch. Pal., 2nd St., Avs. F & G.
- Sullivan Machinery Co., Spokane, Wash. The Mine. Post puncher for mining pitching coal.
- Superior Oxygen Co., Pittsburg, Pa. Oxygen. The Mine.
- U. S. Geo. Survey, Washington, D. C. Equipment and survey methods. Av. B.
- U. S. Steel Corporation & Subsidiary Cos., New York, N. Y. Collective iron, steel and coal exhibit. Av. D.
- American Bridge Co., Pittsburg, Pa. Model of coal barge.
- American Steel & Wire Co., Chicago, Ill. Track and tramway cables.
- Carnegie Steel Co., Pittsburg, Pa. Mining and drilling equipment.
- National Tube Co., Pittsburg, Pa. Oil well pipe and casing.
- H. C. Frick Co., Pittsburg, Pa. Safety and rescue Ex.
- Oliver Iron Mining Co., Duluth, Minn. Safety and rescue Ex.
- Tenn. Coal, Iron & R. R. Co., Birmingham. Safety and rescue Ex.
- U. S. Coal & Coke Co., Pittsburg, Pa. Safety and rescue Ex.
- Bunsen Coal Co., Pittsburg, Pa. Safety and rescue Ex.
- Weber Subterranean Pump Co., New York, N. Y. Mine and artesian well pumps. Mch. Pal., 1st St. & Av. C2.
- Westinghouse Electric & Mfg. Co., Pittsburg, Pa. Trans. Pal. Baldwin-Westinghouse electric mine locomotive—bar steel frame with trolley and gathering reel. Baldwin-Westinghouse storage battery locomotive with bar steel frame; mine motors; industrial gears and pinions; industrial motor control. See motor appliances in booths of other exhibitors, in service.

White Co., Cleveland, O. Rescue truck
 Witherbee Igniter Co., Springfield, Mass. The Mine.
 Wolf Safety Lamp Co. of America, Inc., New York, N. Y. The Mine. Miners' safety and carbide lamps.

GROUP 153
MINERALS AND STONES AND THEIR UTILIZATION

Anaconda Copper Mining Co., Anaconda, Mont. Minerals, ores. Av. B, bet. 5th & 6th Sts.
 Andrew & Co., Ltd., Sheffield, Eng. Rock drills. Mch. Pal., 4th St., bet. Avs. G & G2.

Argentina. Mineral and stones. 5th St., bet. Avs. C & D.

Asbestos Protected Metal Co., Beaver Falls, Pa. Roofing. Bureau of Mines.

Barber Asphalt Paving Co., Philadelphia, Pa. Roofing materials. Mch. Pal., 5th St. & Av. I. Parrott & Co., San Francisco, Cal., Representatives. See ad. on front cover of Machinery catalog.

Barrett Mfg. Co., Philadelphia, Pa. Asphalt products. 7th St., bet. Avs. C & D.

Ceresit Waterproofing Co., Chicago, Ill. Waterproofing products. Mch. Pal., 5th St. & Av. I. Cement waterproofing and damp-proof products for factories, residences, reservoirs, etc. Ceresit Floor Hardener for hard and dustless concrete floors. Weather wear, storm-proof roof coat.

China. Minerals and stones. 4th St., bet. Avs. C & D.

Consolidation Coal Co., Fairmont, W. Va. Coal. The Mine.

Diaston, Henry & Sons, Inc., Philadelphia, Pa. Saw Mfr. Av. C, cor. 6th St.

Foots Mfg. Co., Nunda, N. Y. Mch. Pal., 4th & 5th Sts., bet. C & C2. Concrete mixers and equipment.

Fuller & Co., W. F., San Francisco, Cal. Paints, varnishes. Av. C & 3rd St.

Homestake Mining Co., Lead, S. D. Mineral collection. The Mine.

International Adhesion Graphite Co., Niagara Falls, N. Y. Graphite. Mch. Pal., 3rd & 4th Sts., Av. C2.

Jaeger Machine Co., Columbus, O. Mch. Pal., 4th & 5th Sts., bet. Avs. C & C2. Artificial stone and cement.

Koppers Co., H. Model coke ovens. Collective Exhibit. Av. D.

MacLeod Co., The, Cincinnati, O. Paint spreading machines. 1st St. & Av. I, Mch. Pal.

Missouri, State of. Zinc, lead ores. 8th St. National Cannery Ass'n. Hort. Pal. 1st & 2nd Sts., & Avs. B & D.

Paraffine Paint Co., The, San Francisco, Cal. Ready roofing. Min. Pal., 7th St., cor. Av. C. Plastic caulking cement. Wall board, asbestos roofing, building and roofing papers, refined asphaltum, preservative paints, roofing paints, cement and damp-proof paints, cement waterproofing compound. Enamels for iron and steel. Gen. Offices: 34 First St., San Francisco, Cal.

Parrott & Co., San Francisco, Cal. Cement waterproofing. Mch. Pal. 4th & 5th Sts., Av. I.

Redwood Manufacturers Co., San Francisco, Cal. Farm Equipment. Block 36, Mch. Pal. 15,000-gallon "Remco" redwood tank in operation. "Remco" machine-banded redwood stave pipe in operation. Miniature "Remco" redwood tank and tower, sections of "Remco" pipe, machine-banded and continuous stave.

Round Mountain Mining Co., Round Mountain, Nev. Gold ores, country rocks, ores and nuggets. Av. B, bet. 2nd & 3rd Sts. Maps, geological sections, photographs relative to geology, mineralogy, quarrying, mining metallurgy, and the manipulation of mineral products.

Smith Co., T. L., Milwaukee, Wis. Concrete mixers. Mch. Pal. Parrott & Co., San Francisco, Cal., representatives. See ad. on front cover of Machinery Catalogue.

GROUP 153

Standard Oil Co. of California. Asphaltum products. Av. C, bet. 6th & 7th Sts. Asphaltum, road oil, cement, fuel oils, illuminating oils, gas oils, lubricating greases, gasoline, lubricating oils, floor oil, liquid gloss.

Standard Oil Co. of Indiana. Wax. Av. C, bet. 6th & 7th Sts. Paraffine wax, petroleum by-products. Comb. Ex.

Standard Varnish Works, Chicago, New York, London. Min. Pal. Av. C, bet. 2nd & 3rd Sts. Largest makers of high-grade varnishes in the world. 113 Front St., San Francisco, Cal.

Sturtevant Mill Co., Boston, Mass. Manufacturers: Crushing rolls, pulverizers, screens, automatic scales, laboratory ore sampling machinery. Harron, Rickard & McCone, San Francisco, representatives.

Union Oil Company of California, San Francisco, Cal. Producers and refiners. Min. Pal. 6th St. & Av. B. Exhibit of fuel and lubricants in Mch. Pal. Cycloramic scenic display of California oil industry; collection in geology; asphalt for paving, asphalt for highway construction, asphalt for roofing, asphalt for coating pipes, asphalt for coating building paper, asphalt for insulating, asphalt for waterproofing, asphalt for joint fitting, asphalt for saturating, asphalt for printer's ink, asphalt for lacquers, asphalt for rubber substitute, asphalt for coating patent leather; complete line refined petroleum products.

Universal Crusher Co., Cedar Rapids, Ia. Mch. Pal. 4th & 5th Sts., bet. Avs. C & C2. Rock and stone crushers.

U. S. Steel Corp. & Subsidiary Cos., New York. Collective iron, coal and coke exhibit. Av. D.

Carnegie Steel Co., Pittsburgh. Fur. coal and coke by-products.

Illinois Steel Co., Chicago. Fur. coal and coke by-products.

H. C. Frick Coke Co., Pittsburgh. Coal and coke.

Universal Portland Cement Co., Chicago. Cement products.

H. Koppers Co. Model coke ovens.

Uruguay. Minerals and stones. 4th St., bet. Avs. B & C.

Valentine & Co., New York. Valspar varnish. (Com. Exhibit). Min. Pal.

Vermont Marble Co., Proctor, Vt. Marble for building purposes. V. I., Av. E & 2nd St.

Wolverine Lubricants Co. Oils. (Com. Exhibit). Min. Pal.

GROUP 154

MINE MODELS, MAPS, PHOTOGRAPHS

Anaconda Copper Mfg. Co., Anaconda, Mont. Maps, photos. Av. B, bet. 5th & 6th Sts.

Argentina. Mine models, maps, photos. 5th St., bet. Avs. C & D.

Bunker Hill & Sullivan Mfg. Co., Kellog, Idaho. The Mine.

China. Mine model, maps, photos. 4th St., bet. Avs. C & D.
 Coast Mfg. & Supply Co., Livermore, Cal. Fuse and caps.
 Consolidated Coal Co., Fairmont, W. Va. The Mine.
 Homestake Mining Co., Lead, S. D. The Mine.
 Lehigh Coal & Nav. Co., Lansford, Pa. The Mine.
 Missouri, State of. Collective exhibit. Mining Palace.
 North American Construction Co., Bay City, Mich. Oil camp.
 Pacific Coast Coal Co., Seattle, Wash. The Mine.
 Pacific Tank & Pipe Co., San Francisco, Cal. Wood stove pipe. 6th St., bet. Avs. A & B.
 Schuyler, F. B., Berkeley, Cal. Gem Mine reproduction. Av. A & 7th St.
 Transvaal Chamber of Mines, South Africa. Specimens, photographs. Av. C & 5th St.
 Uruguay. Mine models, maps, photos. 4th St., bet. Avs. B & C.
 U. S. Geological Survey, Washington, D. C. Charts, photos, maps. Av. B.
 U. S. Steel Corp. & Subsidiary Cos., New York. Collective iron, steel and coal exhibit. Av. D.
 Carnegie Steel Co., Pittsburgh. Models and photos of steel manufacture.
 H. C. Frick Coke Co., Pittsburgh. Models and photos, coal mining.
 Illinois Steel Co., Chicago. Photos, steel manufacture.
 Oliver Iron Mining Co., Duluth. Models and iron-mining exhibit.
 Pittsburgh & Conneaut Dock Co., Conneaut. Models and photos, ore handling.

GROUP 155

METALLURGY

Anaconda Copper Mfg. Co., Anaconda, Mont. Copper metals. Av. B, bet. 5th & 6th Sts.
 Argentine. Metallurgy of ores. 5th St., bet. Avs. C & D.
 Am. Rolling Mills Co., Middletown, O. Armcro iron. 7th St., bet. Avs. C & D.
 Armcro Iron Culvert Mfrs. Assn., Middletown, O. Culverts. Min. Pal., Av. C & 7th St.
 Corrugated Armcro iron culverts, automatic flood gates, pressure head gates, irrigation gates, Lennon metal flumes
 Bristol Co., The, Waterbury, Conn. Recording pyrometers. Mch. Pal., 2nd St. & Av. D.
 Co-operative Metallurgical Exhibit, U. S. Bureau of Mines and the following companies. 5th St. & Av. A.
 Ainsworth & Sons, Wm. G., Denver, Colo. Assay and analytical balances.
 Braun Corporation, Los Angeles, Cal. Agitators, crushers, mixers, etc.
 Braun-Knecht-Heiman Co., San Francisco, Cal. Agitators, crushers, mixers, etc.
 Dorr Cyanide Machinery Co., Denver, Colo. Cyanide tanks.
 Englehard, Chas. & Co., Rochester, N. Y. Pyrometers.
 Merrill Metallurgical Co., San Francisco, Cal. Mining equipment.
 Oliver Continuous Filter Co., San Francisco, Cal. Working model of Oliver filter.
 Taylor Instrument Co., Rochester, N. Y. Thermometers and pyrometers.
 Tyler Co., W. S., Cleveland, Ohio.
 China. Metallurgy of ores. 4th St., bet. Avs. C & D.
 Denver Engineering Works, Denver, Colo. The Mine.
 Dodge Manufacturing Co., Mishawaka, Ind. Screens, power-driven.
 Fairmont Mining Machinery Co., W. Va. The Mine.
 Fuller, W. P. & Co., San Francisco, Cal. Av. C & Third St. Operating lead mill.

Henderson Willis Co., St. Louis, Mo. Welding equipment. Mch. Pal. 2nd St. & Av. F.
 Homestake Mining Co., Lead, S. D. The Mine.
 Industrial Instrument Co., Foxboro, Mass. Recording pyrometers. Mch. Pal. 3rd St. & Av. C2.
 Int'l Acheson Graphite Co., Niagara Falls, N. Y. Mch. Pal. 3rd & 4th Sts., Av. C2.
 Jahnke Welding & Mfg. Co., San Francisco, Cal. Welding Equipment. Mch. Pal. South Entrance.
 Krogh Mfg. Co., San Francisco, Cal. Mch. Pal. 3rd St., Avs. H & I. Slime Pumps.
 Lambie Steel Form Co., New York, N. Y. Interchangeable Steel Moulds. Mch. Pal. 1st St. and Av. D.
 Macleod Co., The, Cincinnati, O. Welding equipment. Mch. Pal., 1st St. & Av. I. Oil furnaces.
 Marland, W. J., Oakland, Cal. Coll. Exh. Interchangeable steel moulds. Mch. Pal., 1st St. & Av. D.
 Missouri, State of. Collective exhibit metals.
 U. S. Steel Corp. & Subsidiary Cos., New York. Collective iron, steel and coal exhibit. Av. D.
 Am. Bridge Co., Pittsburgh. Steel bridges and buildings.
 Am. Steel & Wire Co., Chicago. Wire reinforcing material.
 Am. Sheet & Tin Plate Co., Pittsburgh. Sheets and tin plates.
 Carnegie Steel Co., Pittsburg. Raw steel and rolled products.
 Illinois Steel Co., Chicago. Steel and finished rolled products.
 National Tube Co., Pittsburgh. Pipes and tubes.
 Tenn. Coal, Iron & E. E. Co., Birmingham. Steel rails.
 Lorain Steel Co., Johnstown, Pa. Electric track welding.
 Timius-Olsen Testing Machine Co. Testing machinery.

LITERATURE OF MINING AND METALLURGY

GROUP 156

Coast Mfg. & Supply Co., Livermore, Cal. The Mine.

CALIFORNIA STATE EXHIBIT

Location: Avenue C, between 5th and 6th Streets.

GROUP 153

Alameda County. Mineral paints, display of.
 Henry Cowell Lime & Cement Co. Cement.
 Kern County. Display: Minerals, stones, fuels, luminants.
 Kern Trading & Oil Co., S. F. Peg model of oil fields, Kern county.
 Santa Barbara County. Display of minerals, fuels, luminants.
 Santa Clara County. Minerals, collective display of.
 San Joaquin Valley Counties Commission, Fresno, Cal. Minerals and stones, from Calaveras, Madero, Fresno, Mariposa counties.
 Shasta County. Minerals, collective display of.
 Siskiyou County. Minerals, collective display of.
 Southern California Counties Exposition Commission, Los Angeles. Mineral fuels and luminants. Los Angeles, San Bernardino and San Diego counties. Minerals and building materials.

GROUP 154

Shasta County. Mine models.
 Siskiyou County. Mine models.
 Yuba Construction Company. Model dredger.

GROUP 155

Straube Manufacturing Company. Stamp mill.

NEW YORK

Avenue C bet. 4th and 5th Streets

GROUP 133

New York State Museum.—Albany. Mineral resources, origin and deposits.
 Carborundum Co.—Niagara Falls. Carborundum, granite, silicon.
 New York Lime Co.—Natural Bridge, N. Y. Limestone.
 Finch, Pruyn Co.—Glen Falls, New York. Marble.
 Glens Falls, Portland Cement Co.—Glens Falls. Crude products.
 Paragon Plaster Co.—Artificial granite; feldspar.
 Kinkel's Sons, P. H.—Bedford. Feldspar, pink and white; rose quartz.
 Crown Point Spar Co.—Crown Point. Feldspar, pegmatite, mill products.
 Johnson, E. J.—New York City. Slate roofs.
 Mathews Slate Roof Co.—Poaltney, Vermont. Slate roof.
 Barton & Son, H. H. Co.—Philadelphia, Pa. Garnet matrix and paper.
 North River Garnet Co.—North River. Garnet matrix; mill products.
 Bruyn Hasbrouck.—New Paltz. Grit, rough and shaped.
 Jos. Dixon Graphite Co.—Jersey City, N. J. Mfg. and products.
 International Acheson Graphite Co.—Niagara Falls, N. Y. Artificial graphite.
 U. S. Gypsum Co.—Oakfield. Gypsum, tile, plaster board.
 Niagara Gypsum Co.—Oakfield. Gypsum, rock, calcined, plaster.
 Ontario Talc Co.—Gouverneur, N. Y. Talc, fibrous and ground.
 Uniform Fibrous Talc Co.—Taleville. Talc, fibrous and ground.
 Worcester Salt Co.—Silver Springs. Salt; mfg. and products.
 Sterling Salt Co.—Cuylerville. Rock and refined salt.
 Retsof Salt Co.—Retsof, N. Y. Salt—rock, lump and ground.
 Onondaga Coarse Salt Association.—Syracuse. Salt by solar evaporation.
 Solvay Process Co.—Syracuse. Soda compounds from limestone and coke.
 St. Lawrence Pyrites Co.—Herman. Crude pyrite and products.
 Connors Paint Co., Wm.—Troy. Mineral pigment.
 Clinton Metallic Paint Co.—Clinton. Mineral pigment.
 Wells Co., James M.—Ogdensburg. Mineral pigment.
 Vacuum Oil Co.—Olean and Rochester. Petroleum—crude and products.
 Wellsville Refining Co.—Wellsville. Crude oil and products.
 Shaner, A. L.—Bolivar. Crude oil, Wough and Porter pools.
 Love, Thomas.—Olean. Crude oil, Clarks-ville, pool.
 Wirt Gasoline Co.—Bolivar. Gasoline, compressed from natural gas.
 Witherbee, Sherman & Co.—Mineville. Magnetite.
 Port Henry Iron Ore Co.—Mineville. Iron Ore.
 Cheever Iron Ore Co.—Port Henry. Magnetite Ore.
 Chateaugay Ore and Iron Co.—Lyon Mountain. Iron Ore and county rocks.
 Benson Mines Co.—Benson Mines. Iron Ore.
 MacIntyre Iron Co.—Tahawus. Titaniferous Magnetite.
 Borst, C. A.—Clinton. Hematite Iron Ore.
 Northern Ore Co.—Edwards. Zinc Ore.

GROUP 154

New York State Museum.—Albany. Mine, metallurgical models, maps, photos.
 Worcester Salt Co.—Silver Springs. Model; making of salt.
 Sterling Salt Co.—Cuylerville. Rock salt occurrence, mining, etc.
 Witherbee-Sherman Co.—Mineville. Iron Ore—"Old Bed;" panoramas.
 Wellsville Refining Co.—Wellsville. Model oil derrick.
 International Acheson Graphite Co.—Niagara Falls. Model electric furnace.
 Solvay Process Co.—Syracuse. Relief charts and photos.
 St. Lawrence Pyrites Co.—Herman. Picture: mines, mills.
 Myers-Whaley Co.—Knoxville, Tenn. Picture: shoveling machine.
 Retsof Salt Co.—Retsof. Photo: surface plant, workings.
 American Gypsum Co.—Akron. Photo: underground gasoline motor.
 Glens Falls Portland Cement Co.—Glens Falls. Quarry photo.
 United States Gypsum Co.—Oakfield. Photo of plant.
 Benson Mines Co.—Benson Mines. Photos of quarry and mill.
 Borst, C. A.—Clinton. Photo of Hematite mine plant.
 New York Lime Co.—Natural Bridge. Photos of quarries and plant.
 Northern Ore Co.—Edwards. Photos of plant.

GROUP 155

Association of American Portland Cement Manufacturers.—Model cement road.
 Barton & Son Co., H. H.—North River. Sorting by hand abrasive garnet.
 Witherbee-Sherman & Co.—Mineville. Concentration magnetic ore.
 Chateaugay Ore and Iron Co.—Lyon Mountain. Iron Ore products.
 North River Garnet Co.—North River. Abrasive garnet.
 Dixon Crucible Co., Jos.—Ticonderoga. Graphite products.
 Northern Iron Co.—Standish. Process: pig iron Lyon Mountain.
 Northern Iron Co.—Port Henry. Process: Mineville pig iron.
 MacIntyre Iron Co.—Tahawus. Products, etc., Port Henry furnace.
 International Acheson Graphite Co.—Niagara Falls. Refractory graphite crucibles.
 Dixon Crucible Co., Jos.—Jersey City, N. Y. Graphite crucibles.
 Carborundum Co.—Niagara Falls. Electro-silicon ware.

GROUP 156

New York State Museum.—Albany. Statistics: mineral resources.

STATE OF NEVADA

GROUP 153

Location: Av. B, bet. 2nd & 3rd Sts. State of Nevada Geological Exhibit. Including minerals, ores, etc.
 Amalgamated Pioche Mines & Smelters Corp., Pioche. Gold, silver, lead, copper, zinc ores.
 Adler, A., Mina. Gold ore.
 Alameda Mining Company, Mina. Copper ores.
 Amador Mining Company, Austin. Silver ores.
 American Smelter & Refining Co., Salt Lake City, Utah. Iron ore.
 Anchor Mine, Las Vegas. Zinc ore.
 Anrora Consolidated Mining Co., Anrora. Gold ore.
 Austin Manhattan Mining Company, Austin. Lead-silver ores, silver.

- Buckhorn Mines Co.,** Buckhorn. Ores and country rock.
Bamberger Delmar Mining Company, Delmar. Gold ore.
Blue Light Mining Co., Mina. Copper ore.
Bray, Joe, Austin. Antimony ore Lead-silver ore.
Bray & Knowles, Battle Mountain. Copper ore.
Bristol Mining Company, Bristol. Copper ores.
Brown, H. M., Mina. Copper ores.
Branzwick Iron Mine, Carson City. Iron ore.
Byran Mine, Battle Mountain. Gold ore.
Codd, A. A., Reno. Country rock and ores, from Rochester District.
Consolidated Nevada Utah Corp., Pioche. Gold, silver, lead ores.
Carrara Marble Co., Carrara. Marble.
Chadic, W. H., Carson City. Graphite.
Carr, Clyde, Mina. Precious stones.
Coaldale Coal Company, Coaldale. Coal, sub-bituminous.
C. & C. Mining Co., Virginia City. Silver ore.
Cattenhorn Brothers, Battle Mountain. Silver ore.
Chisholm Mine, Ely. Lead-silver ore.
Connis, H. A., Ely. Manganese ore.
Cook, W. L., Reno. Copper ore.
Cook & Lloyd, Luning. Lead, silver ore.
Crow Canyon Mining Company, Elko. Gold ore.
Crown Mines, Golconda. Gold ore.
Curdew, Harry, Silver City. Gold ore.
Delmar & Sproule, Goodsprings, Las Vegas. Gypsum.
Day Mine, Ely. Lead-silver ore.
Del Monte Mines, Goodsprings, Las Vegas. Copper ore.
Dexter Union Mining Co., Manhattan. Gold ore.
Dixon & Stebbins, Round Mountain. Gold ore.
Donald, D. A., Silver Peak. Arsenic.
Douglas-Wardell, Tonopah. Mercury ore.
Dyer, E. A., Yerington. Copper ores.
E. J. Mining Company, Bristol. Lead-silver ore.
Eckman, William, Battle Mountain. Lead-silver ore.
Ehlers, Paul, Luning. Gold ore.
Elko Prince Mining Company, Midas. Gold ore.
Ella Mine, Pioche. Lead-silver ore.
Everett, F. Minna. Copper ore.
Esmeralda County, Commissioners of, Goldfield. Mica, sulphur ores, molybdenum and tungsten ores.
Falkner, E. & F. D., Mina. Lead and vanadium ores.
Flinn & Eoder, Pioche. Lead-silver ore.
Finney, E. H., Las Vegas. Gypsum.
Florence-Goldfield Mining Co., Goldfield. Rough and polished ores.
Goldbanks Quicksilver Co., Winnemucca. Country rocks and ores.
Goldfield Cons. Mines Co., Goldfield. Country rocks and gold ores.
Gould, Dr. H. G., Lovelock. Gypsum.
George, E. T., Battle Mountain. Lead-silver and silver ores.
Giroux Consolidated Mining Co., Ely. Copper ore.
Glasgow Western Exploration Co., Battle Mountain. Copper ore.
Gold Mountain Mining Company, Tonopah. Gold ore.
Good Enough Mine, Pioche. Copper ore.
Goldbanks Quicksilver Mining Co., Winnemucca. Mercury ore.
Gold Eagle Mine, Ely. Silver ore.
Goldfield Alamo Mining Company, Hawthorne. Lead-silver ore.
Goldfield Consolidated Mining Co., Goldfield. Gold ore.
Goldfield Florence Mining Co., Goldfield. Gold ore.
Goldfield Plymouth Mining Co., Goldfield. Gold ore.
Goodspeed, William, Ely. Silver-lead ore.
Goodwin & Johnson, Pioche. Lead-silver ore.
Grube, F. G., Luning. Silver ore.
Hill & Worsick, Lovelock. Wonderstone.
Heaney, John T., Reno. Opals in the rough.
Hard Scrabbie Mine, Eube Brown, Midas. Gold ore.
Hannan, John, Reno. Lead-silver ore.
Haughton, James, Mina. Lead-silver ore.
Hilt & Adams, Mina. Lead-silver ore.
Hillside Mining Company, Bristol. Lead-silver ore.
Holmes Mining Co., Candelinn. Silver ore.
Horton Brothers, Battle Mountain. Lead-silver ore.
Hulse, E. W., Ely. Antimony ore.
Jumbo Extension Mining Co., Goldfield. Gold-copper ores.
Kennedy, C. E., Winnemucca. Gold ore.
Kiernan, J. H., Pioche. Copper ore.
Kimberly Consolidated Mining Co., Hill Top. Gold ore.
Kramer Hill Mining Co., Golconda. Gold ore.
Lawrence, I. N., Las Vegas. Tungsten ore.
Lemaire Brothers, Battle Mountain. Silver ore.
Little Holopuss Mine (A. H. Scott), Luning. Silver ore.
Luchens, Fred, Austin. Silver ore.
Lucky Star Mine, Luning. Lead-silver ore.
Luning Aviator Mining Co., Luning. Copper ore.
Lyon & Heggland, Luning. Copper ore.
Mason Valley Mines Co., Thompson. Country rocks and ores, copper.
Mercury Mines Co., Ione. Country rocks and ores.
Montana-Tonopah Mines Co., Tonopah. Ores.
Manhattan Consolidated Mining Co., Manhattan. Gold ore.
Manhattan Mining Company, Ely. Copper ore.
Manhattan White Cap Mining Co., Manhattan. Arsenic, antimony ores.
Marcel, D. P., Ruth. Copper ore.
Maricopa Mining Co., Austin. Silver ore.
Masey, F. M., Midas. Gold ore.
McCluskey, H. G., Goldfield. Lead-silver ore.
McDonald, D. C., Ely. Copper ore, lead.
McDonald, J. E., Las Vegas. Zinc ore.
McLaughlin, J. A., Tonopah. Zinc ore.
Meagher, W., Battle Mountain. Lead-silver ore.
Mercury Mining Company, Ione. Mercury ore.
Montana Tonopah Mining Company, Tonopah. Silver ore.
Monte Cristo Mine, Goodsprings, Las Vegas. Zinc ore.
Mount Diablo Mine, Candelina. Silver ore.
Nevada Bunker Hill Mining Co., Elko. Country rocks and ores. Copper, silver, lead.
Nevada Cinnabar Co., Ione. Country rocks and ores.
Nevada Consolidated Copper Co., McGill. Copper ores.
Nevada Douglas Copper Co., Ludwig. Country rocks and copper ores.
Nevada Hills Mining Co., Fairview. Country rocks and ores.
Nevada New Mines Co., Rawhide. Gold and silver ores. Country rock.
Nevada Wonder Mining Co., Wonder. Country rocks and ores.
Ninnis, F. C., Tonopah. Silver ore.
Nevada Douglas, Yerington. Gypsum, copper ores and native copper.
Nevada Sulphur Company, Sulphur. Sulphur.
National Mines Co., National. Silver ore.
Nevada Central Mining Co., Ely. Lead-silver.

- Nevada Cinnabar Mining Co., Ione. Mercury ore.
- Nevada Consolidated Mining Co., Ely. Copper ore.
- Nevada Minnesota Mining Co., Yerington. Copper ore.
- Nevada New Mines Co., Rawhide. Gold ore.
- New Era Mining Co., Pioche. Gold ore.
- Newlyons & Heggland, Pioche. Silver ore.
- Noble, E. T., Midas. Gold ore.
- Plymire, Dr. F. A., Mina. Polished marble.
- Portland Cement Company. Mound House. Gypsum.
- Potosi Mine, Goodsprings, Las Vegas. Zinc ore.
- Prairie Flower Mine, Goodsprings, Las Vegas. Zinc ore.
- Paisley, J. A., Midas. Gold ore.
- Panie & Licing, Ely. Lead-silver ore.
- Patch Mine, Mina. Silver ore.
- Pepper & Keough, Mina. Mercury ore.
- Playter, Jos. E., Golconda. Gold ore.
- Pohl, Fred, Austin. Bar of silver, silver ore.
- Poujade, J., Carson City. Lead-silver ore.
- Ophir Mining Co., Virginia City. Silver ore.
- Orr, William, Lovelock. Native silver and silver ore.
- Queen Sheba Mine, Mills City. Lead-silver ore, silver ore.
- Quigley, F. D., Luning. Copper ore.
- Round Mountain Mining Co., Round Mountain. Gold ores, country rocks, ores and nuggets. Av. B, bet. 2nd & 3rd Sts. Maps, geological sections, photographs relative to geology, mineralogy, quarrying, mining metallurgy, and the manipulation of mineral products.
- Red Top Mining Co., Hill Top. Lead-silver ore.
- Rex Reduction Co., Midas. Gold ore.
- Reich, C., Luning. Copper ore.
- Romanche, P. V., Orizaba. Silver-lead ore.
- Round Mountain Tungsten Mining Co., Round Mountain. Tungsten ore.
- "Rover Group," Goodsprings, Las Vegas. Lead and zinc ores.
- Royal Mining Co., Luning. Gold ore.
- Ruby Silver Mining Co., Battle Mountain. Silver ore.
- Ruth Mine, Ruth. Lead-silver ore.
- Seven Troughs Coalition Mining Co., Seven Troughs. Ores.
- Stevenson, C. T., Reno. Polished varisite.
- Seven Troughs Coalition Mining Co., Lovelock. Gold ore.
- Shafford & McCarthy, Austin. Lead-silver ore.
- Scherfield Mining Co., Golconda. Silver ore.
- Silverfield Mining Co., Golconda. Lead-silver ore.
- Simmons, P. H., Mina. Copper ore.
- Smith, E. E., San Francisco. Gold ore.
- Stewart Bros., McMillan, Luning. Copper ore.
- Stewart, W. J., Tonopah. Copper ore.
- Stewart, Robert, Sodaville. Gold ore.
- Tonopah Belmont Development Co., Tonopah. Oxidized and sulphide ores.
- Tonopah Extension Mining Co., Tonopah. Ores.
- Tonopah Mining Co., of Nevada, Tonopah. Oxidized and sulphide ores.
- Taylor, James T., Pioche. Lead-silver ore.
- Tilford, John, Ely. Tungsten.
- Tolare Mining Co., Austin. Lead-silver ore.
- Tonopah Extension Mining Co., Tonopah. Silver ore.
- Tonopah Merger Mining Co., Tonopah. Silver ore.
- Tonopah Midway Mining Co., Tonopah. Silver ore.
- Tonopah North Star Mining Co., Tonopah. Silver ore.
- University of Nevada, Reno. Country rock and ores, gold and silver.
- University of Nevada, Reno. Diatomaceous earth, tripoli, mica, salt, ores, tungsten, antimony, lead, silver, copper and gold.
- U. S. Smelting & Refining Co., Salt Lake, Utah. Copper ore.
- Virgin River Salt Co., Las Vegas. Salt.
- Vanderhoff, E. E., Ely. Lead ore.
- Virginia Iron Mine, Virginia City. Iron ore.
- Virtue Mine Co., Ely. Lead-silver ore.
- Watson & Bachman, Luning. Copper ore.
- Williams & Clifford, Austin. Lead-silver ore.
- Waltl, E. D., Eureka. Zinc and copper ore.
- Wedekind & Selever, Mina. Copper ore.
- Weich & Selever, Mina. Copper ore.
- White Cap Mining Co., National. Silver ore.
- Workman, Jesse, National. Lead-silver ore.
- West End Consolidated Mining Co., Tonopah. Country rocks and ores.
- White Pine County Commissioners, Ely. Copper ores.
- Wingfield, George, Reno. Polished specimens of gold ore, copper ore.
- Yellow Pine Mine, Goodsprings. Zinc ore.
- Yount & Fayle, Goodsprings. Platinum ore.

GROUP 154

- Amalgamated Pioche Mines & Smelters Corp., Pioche. Photograph.
- Balliet, Letson, Tonopah. Drawing and photograph.
- Buckeye Belmont Mines Co., Tonopah. Photographs and panorama.
- Buckhorn Mines Co., Buckhorn. Photographs and model.
- Codd, A. A., Reno. Panorama and photograph.
- Denver Rock Drill & Machinery Co., S. F., Cal. Waugh stopper model, 12 A.
- Desert Power & Mill Co., Millers. Panorama of mill.
- Florence-Goldfield Mining Co., Goldfield. Map of workings.
- Goldbanks Quicksilver Co., Winnemucca. Map and photographs.
- Julian, E. A., Reno. Mill cow.
- Mason Valley Mines Co., Thompsons. Panorama of mine and smelter.
- Mercury Mines Co., Ione. Photograph of property.
- Montana-Tonopah Mines Co., Tonopah. Photographs, map and model.
- Moran, William J., Tonopah. Claim map.
- National Mines Co., Winnemucca. Photograph of mine.
- Nevada Bunker Hill Mining Co., Elko. Photographs and maps.
- Nevada Cinnabar Co., Ione. Photographs of property.
- Nevada Consolidated Copper Co., McGill. Panorama and photographs.
- Nevada Douglas Copper Mining Co., Ludwig. Panorama of property.
- Nevada Hills Mining Co., Fairview. Photographs and model.
- Nevada Wonder Mining Co., Wonder. Photographs of property.
- O'Leary, Frank, National. Claim map.
- Reid, W. F., Goldfield. Model of blacksmith shop, tools.
- Round Mountain Mining Co., Round Mountain. Photographs.
- Seven Troughs Coalition Mining Co., Seven Troughs. Panorama.
- Tonopah Belmont Development Co., Tonopah. Photographs and model.
- Tonopah Extension Mining Co., Tonopah. Photographs.
- University of Nevada, Reno. Models, panoramas and maps.
- Goldfield Consolidated Mines Co., Goldfield. Photographs.

GROUP 155

State of Nevada. Metallurgical products.
 Belmont Milling, Tonopah. Products of mill.
 Buckhorn Mines Co., Buckhorn. Products of mill.
 Churchill Milling Co., Wonder. Screen analysis of mill products.
 Desert Power & Mill Co., Millers. Product of mill.
 Coldbanks Quicksilver Co., Winnemucca. Products of furnace.
 Mason Valley Mines Co., Thompson. Products of copper smelter.
 Mercury Mines Co., Ione. Products of furnace.
 Nevada Cinnabar Co., McGill. Products of furnace.
 Nevada Cons. Copper Co., McGill. Metallurgical products, copper.
 Nevada Hills Mining Co., Fairview. Products of mill.
 Nevada Milling Co., Tonopah. Products of mill.
 Seven Troughs Coalition Co., Seven Troughs. Products of mill.

GROUP 156

State of Nevada. Literature and statistics of mining and metallurgy.
 Belmont Milling Co., Tonopah. Flow and elevation sheets.
 Churchill Milling Co., Wonder. Flow sheet.
 Desert Power & Mill Co., Millers. Flow sheet.
 Goldfield Consolidated Mines Co., Goldfield. Flow sheet.
 Montana Tonopah Mines Co., Tonopah. Flow sheet.
 Nevada Hills Mining Co., Fairview. Elevation and flow sheet.
 Nevada Milling Co., Tonopah. Flow sheet, section Carpenter agitator.
 Round Mountain Mining Co., Round Mountain. Flow sheet.
 Seven Troughs Coalition Mining Co., Seven Troughs. Flow sheet.
 Tonopah Extension Mining Co., Tonopah. Flow sheet.
 University of Nevada, Reno. Production charts and maps.

SWEDEN

The exhibits of Sweden, classified in this Department, are installed in the Swedish Building, Avenue of Nations.

7

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